PF-0356-3 DIV

<110> Lal, Preeti
Hillman, Jennifer L.
Bandman, Olga
Shah, Purvi
Au-Young, Janice
Yue, Henry
Guegler, Karl J.
Corley, Neil C.

<120> HUMAN REGULATORY MOLECULES

<130> PF-0356-3 DIV

<140> To Be Assigned
<141> Herewith

<160> 98
<170> PERL Program

<210> 1
<211> 151
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 000133

<400> 1

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Met Thr Asn Glu Glu Pro Leu Pro Lys Lys Val Arg Leu Ser Glu
  1               5                  10                  15
Thr Asp Phe Lys Val Met Ala Arg Asp Glu Leu Ile Leu Arg Trp
                 20                  25                  30
Lys Gln Tyr Glu Ala Tyr Val Gln Ala Leu Glu Gly Lys Tyr Thr
                 35                  40                  45
Asp Leu Asn Ser Asn Asp Val Thr Gly Leu Arg Glu Ser Glu Glu
                 50                  55                  60
Lys Leu Lys Gln Gln Gln Gln Glu Ser Ala Arg Arg Glu Asn Ile
                 65                  70                  75
Leu Val Met Arg Leu Ala Thr Lys Glu Gln Glu Met Gln Glu Cys
                 80                  85                  90
Thr Thr Gln Ile Gln Tyr Leu Lys Gln Val Gln Gln Pro Ser Val
                 95                 100                 105
Ala Gln Leu Arg Ser Thr Met Val Asp Pro Ala Ile Asn Leu Phe
                110                 115                 120
Phe Leu Lys Met Lys Gly Glu Leu Glu Gln Thr Lys Asp Lys Leu
                125                 130                 135
Glu Gln Ala Gln Asn Glu Leu Ser Ala Trp Lys Phe Thr Pro Asp
                140                 145                 150
Arg
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<210> 2
<211> 185
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 001762

<400> 2
Met Leu Thr Leu Ala Ser Lys Leu Lys Arg Asp Asp Gly Leu Lys
1 5 10 15
Gly Ser Arg Thr Ala Ala Thr Ala Ser Asp Ser Thr Arg Arg Val
20 25 30
Ser Val Arg Asp Lys Leu Leu Val Lys Glu Val Ala Glu Leu Glu
35 40 45
Ala Asn Leu Pro Cys Thr Cys Lys Val His Phe Pro Asp Pro Asn
50 55 60
Lys Leu His Cys Phe Gln Leu Thr Val Thr Pro Asp Glu Gly Tyr
65 70 75
Tyr Gln Gly Gly Lys Phe Gln Phe Glu Thr Glu Val Pro Asp Ala
80 85 90
Tyr Asn Met Val Pro Pro Lys Val Lys Cys Leu Thr Lys Ile Trp
95 100 105
His Pro Asn Ile Thr Glu Thr Gly Glu Ile Cys Leu Ser Leu Leu
110 115 120
Arg Glu His Ser Ile Asp Gly Thr Gly Trp Ala Pro Thr Arg Thr
125 130 135
Leu Lys Asp Val Val Trp Gly Leu Asn Ser Leu Phe Thr Asp Leu
140 145 150
Leu Asn Phe Asp Asp Pro Leu Asn Ile Glu Ala Ala Glu His His
155 160 165
Leu Arg Asp Lys Glu Asp Phe Arg Asn Lys Val Asp Asp Tyr Ile
170 175 180
Lys Arg Tyr Ala Arg
185

<210> 3
<211> 59
<212> PRT
<213> Homo sapiens

<220>
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<223> Incyte ID No: 001847

<400> 3
Met Gly Lys Val Asn Val Ala Lys Leu Arg Tyr Met Ser Arg Asp

```
  1               5                  10                  15
Asp Phe Arg Val Leu Thr Ala Val Glu Met Gly Met Lys Asn His
                 20                  25                  30
Glu Ile Val Pro Gly Ser Leu Ile Ala Ser Ile Ala Ser Leu Lys
                 35                  40                  45
His Gly Gly Cys Asn Lys Val Leu Arg Glu Leu Val Lys His
                 50                  55
```

<210> 4
<211> 338
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 009337

<400> 4

```
Met Leu Glu Thr Phe Gly His Leu Val Ser Val Gly Trp Glu Thr
  1               5                  10                  15
Thr Leu Glu Asn Lys Glu Leu Ala Pro Asn Ser Asp Ile Pro Glu
                 20                  25                  30
Glu Glu Pro Ala Pro Ser Leu Lys Val Gln Glu Ser Ser Arg Asp
                 35                  40                  45
Cys Ala Leu Ser Ser Thr Leu Glu Asp Thr Leu Gln Gly Gly Val
                 50                  55                  60
Gln Glu Val Gln Asp Thr Val Leu Lys Gln Met Glu Ser Ala Gln
                 65                  70                  75
Glu Lys Asp Leu Pro Gln Lys Lys His Phe Asp Asn Arg Glu Ser
                 80                  85                  90
Gln Ala Asn Ser Gly Ala Leu Asp Thr Asn Gln Val Ser Leu Gln
                 95                 100                 105
Lys Ile Asp Asn Pro Glu Ser Gln Ala Asn Ser Gly Ala Leu Asp
                110                 115                 120
Thr Asn Gln Val Leu Leu His Lys Ile Pro Pro Arg Lys Arg Leu
                125                 130                 135
Arg Lys Arg Asp Ser Gln Val Lys Ser Met Lys His Asn Ser Arg
                140                 145                 150
Val Lys Ile His Gln Lys Ser Cys Glu Arg Gln Lys Ala Lys Glu
                155                 160                 165
Gly Asn Gly Cys Arg Lys Thr Phe Ser Arg Ser Thr Lys Gln Ile
                170                 175                 180
Thr Phe Ile Arg Ile His Lys Gly Ser Gln Val Cys Arg Cys Ser
                185                 190                 195
Glu Cys Gly Lys Ile Phe Arg Asn Pro Arg Tyr Phe Ser Val His
                200                 205                 210
Lys Lys Ile His Thr Gly Glu Arg Pro Tyr Val Cys Gln Asp Cys
                215                 220                 225
Gly Lys Gly Phe Val Gln Ser Ser Ser Leu Thr Gln His Gln Arg
                230                 235                 240
```

```
Val His Ser Gly Glu Arg Pro Phe Glu Cys Gln Glu Cys Gly Arg
                245                 250                 255
Thr Phe Asn Asp Arg Ser Ala Ile Ser Gln His Leu Arg Thr His
                260                 265                 270
Thr Gly Ala Lys Pro Tyr Lys Cys Gln Asp Cys Gly Lys Ala Phe
                275                 280                 285
Arg Gln Ser Ser His Leu Ile Arg His Gln Arg Thr His Thr Gly
                290                 295                 300
Glu Arg Pro Tyr Ala Cys Asn Lys Cys Gly Lys Ala Phe Thr Gln
                305                 310                 315
Ser Ser His Leu Ile Gly His Gln Arg Thr His Asn Arg Thr Lys
                320                 325                 330
Arg Lys Lys Lys Gln Pro Thr Ser
                335
```

<210> 5
<211> 456
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 009476

<400> 5

```
Met Lys Ile Glu Glu Val Lys Ser Thr Thr Lys Thr Gln Arg Ile
  1               5                  10                  15
Ala Ser His Ser His Val Lys Gly Leu Gly Leu Asp Glu Ser Gly
                20                  25                  30
Leu Ala Lys Gln Ala Ala Ser Gly Leu Val Gly Gln Glu Asn Ala
                35                  40                  45
Arg Glu Ala Cys Gly Val Ile Val Glu Leu Ile Glu Ser Lys Lys
                50                  55                  60
Met Ala Gly Arg Ala Val Leu Leu Ala Gly Pro Pro Gly Thr Gly
                65                  70                  75
Lys Thr Ala Leu Ala Leu Ala Ile Ala Gln Glu Leu Gly Ser Lys
                80                  85                  90
Val Pro Phe Cys Pro Met Val Gly Ser Glu Val Tyr Ser Thr Glu
                95                 100                 105
Ile Lys Lys Thr Glu Val Leu Met Glu Asn Phe Arg Arg Ala Ile
               110                 115                 120
Gly Leu Arg Ile Lys Glu Thr Lys Glu Val Tyr Glu Gly Glu Val
               125                 130                 135
Thr Glu Leu Thr Pro Cys Glu Thr Glu Asn Pro Met Gly Gly Tyr
               140                 145                 150
Gly Lys Thr Ile Ser His Val Ile Ile Gly Leu Lys Thr Ala Lys
               155                 160                 165
Gly Thr Lys Gln Leu Lys Leu Asp Pro Ser Ile Phe Glu Ser Leu
               170                 175                 180
Gln Lys Glu Arg Val Glu Ala Gly Asp Val Ile Tyr Ile Glu Ala
```

185 190 195
Asn Ser Gly Ala Val Lys Arg Gln Gly Arg Cys Asp Thr Tyr Ala
200 205 210
Thr Glu Phe Asp Leu Glu Ala Glu Glu Tyr Val Pro Leu Pro Lys
215 220 225
Gly Asp Val His Lys Lys Lys Glu Ile Ile Gln Asp Val Thr Leu
230 235 240
His Asp Leu Asp Val Ala Asn Ala Arg Pro Gln Gly Gly Gln Asp
245 250 255
Ile Leu Ser Met Met Gly Gln Leu Met Lys Pro Lys Lys Thr Glu
260 265 270
Ile Thr Asp Lys Leu Arg Gly Glu Ile Asn Lys Val Val Asn Lys
275 280 285
Tyr Ile Asp Gln Gly Ile Ala Glu Leu Val Pro Gly Val Leu Phe
290 295 300
Val Asp Glu Val His Met Leu Asp Ile Glu Cys Phe Thr Tyr Leu
305 310 315
His Arg Ala Leu Glu Ser Ser Ile Ala Pro Ile Val Ile Phe Ala
320 325 330
Ser Asn Arg Gly Asn Cys Val Ile Arg Gly Thr Glu Asp Ile Thr
335 340 345
Ser Pro His Gly Ile Pro Leu Asp Leu Leu Asp Arg Val Met Ile
350 355 360
Ile Arg Thr Met Leu Tyr Thr Pro Gln Glu Met Lys Gln Ile Ile
365 370 375
Lys Ile Arg Ala Gln Thr Glu Gly Ile Asn Ile Ser Glu Glu Ala
380 385 390
Leu Asn His Leu Gly Glu Ile Gly Thr Lys Thr Thr Leu Arg Tyr
395 400 405
Ser Val Gln Leu Leu Thr Pro Ala Asn Leu Leu Ala Lys Ile Asn
410 415 420
Gly Lys Asp Ser Ile Glu Lys Glu His Val Glu Glu Ile Ser Glu
425 430 435
Leu Phe Tyr Asp Ala Lys Ser Ser Ala Lys Ile Leu Ala Asp Gln
440 445 450
Gln Asp Lys Tyr Met Lys
455

<210> 6
<211> 210
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 010370

<400> 6
Met Val Leu Trp Leu Lys Gly Val Thr Phe Asn Val Thr Thr Val
1 5 10 15

```
Asp Thr Lys Arg Arg Thr Glu Thr Val Gln Lys Leu Cys Pro Gly
                 20                  25                  30
Gly Gln Leu Pro Phe Leu Leu Tyr Gly Thr Glu Val His Thr Asp
                 35                  40                  45
Thr Asn Lys Ile Glu Glu Phe Leu Glu Ala Val Leu Cys Pro Pro
                 50                  55                  60
Arg Tyr Pro Lys Leu Ala Ala Leu Asn Pro Glu Ser Asn Thr Ala
                 65                  70                  75
Gly Leu Asp Ile Phe Ala Lys Phe Ser Ala Tyr Ile Lys Asn Ser
                 80                  85                  90
Asn Pro Ala Leu Asn Asp Asn Leu Glu Lys Gly Leu Leu Lys Ala
                 95                 100                 105
Leu Lys Val Leu Asp Asn Tyr Leu Thr Ser Pro Leu Pro Glu Glu
                110                 115                 120
Val Asp Glu Thr Ser Ala Glu Asp Glu Gly Val Ser Gln Arg Lys
                125                 130                 135
Phe Leu Asp Gly Asn Glu Leu Thr Leu Ala Asp Cys Asn Leu Leu
                140                 145                 150
Pro Lys Leu His Ile Val Gln Val Val Cys Lys Lys Tyr Arg Gly
                155                 160                 165
Phe Thr Ile Pro Glu Ala Phe Arg Gly Val His Arg Tyr Leu Ser
                170                 175                 180
Asn Ala Tyr Ala Arg Glu Glu Phe Ala Ser Thr Cys Pro Asp Asp
                185                 190                 195
Glu Glu Ile Glu Leu Ala Tyr Glu Gln Val Ala Lys Ala Leu Lys
                200                 205                 210
```


<210> 7
<211> 255
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 030137

<400> 7

```
Met Leu Gly Gln Leu Leu Pro His Thr Ala Arg Gly Leu Gly Ala
  1               5                  10                  15
Ala Glu Met Pro Gly Gln Gly Pro Gly Ser Asp Trp Thr Glu Arg
                 20                  25                  30
Ser Ser Ser Ala Glu Pro Pro Ala Val Ala Gly Thr Glu Gly Gly
                 35                  40                  45
Gly Gly Gly Ser Ala Gly Tyr Ser Cys Tyr Gln Asn Ser Lys Gly
                 50                  55                  60
Ser Asp Arg Ile Lys Asp Gly Tyr Lys Val Asn Ser His Ile Ala
                 65                  70                  75
Lys Leu Gln Glu Leu Trp Lys Thr Pro Gln Asn Gln Thr Ile His
                 80                  85                  90
```

```
Leu Ser Lys Ser Met Met Glu Ala Ser Phe Phe Lys His Pro Asp
                 95                  100                 105
Leu Thr Thr Gly Gln Lys Arg Tyr Leu Cys Ser Ile Ala Lys Ile
                110                 115                 120
Tyr Asn Ala Asn Tyr Leu Lys Met Leu Met Lys Arg Gln Tyr Met
                125                 130                 135
His Val Leu Gln His Ser Ser Gln Lys Pro Gly Val Leu Thr His
                140                 145                 150
His Arg Ser Arg Leu Ser Ser Arg Tyr Ser Gln Lys Gln His Tyr
                155                 160                 165
Pro Cys Thr Thr Trp Arg His Gln Leu Glu Arg Glu Asp Ser Gly
                170                 175                 180
Ser Ser Asp Ile Ala Ala Ala Ser Ala Pro Glu Met Leu Ile Gln
                185                 190                 195
His Ser Leu Trp Arg Pro Val Arg Asn Lys Glu Gly Ile Lys Thr
                200                 205                 210
Gly Tyr Ala Ser Lys Thr Arg Cys Lys Ser Leu Lys Ile Phe Arg
                215                 220                 225
Arg Pro Arg Lys Leu Phe Met Gln Thr Val Ser Ser Asp Asp Ser
                230                 235                 240
Glu Ser His Met Ser Gly Glu Lys Lys Gly Arg Gly Phe Thr Thr
                245                 250                 255
```

<210> 8
<211> 188
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 077180

<400> 8

```
Met Ala Leu Ala Met Leu Val Leu Val Val Ser Pro Trp Ser Ala
  1               5                  10                  15
Ala Arg Gly Val Leu Arg Asn Tyr Trp Glu Arg Leu Leu Arg Lys
                 20                  25                  30
Leu Pro Gln Ser Arg Pro Gly Phe Pro Ser Pro Pro Trp Gly Pro
                 35                  40                  45
Ala Leu Ala Val Gln Gly Pro Ala Met Phe Thr Glu Pro Ala Asn
                 50                  55                  60
Asp Thr Ser Gly Ser Lys Glu Asn Ser Ser Leu Leu Asp Ser Ile
                 65                  70                  75
Phe Trp Met Ala Ala Pro Lys Asn Arg Arg Thr Ile Glu Val Asn
                 80                  85                  90
Arg Cys Arg Arg Arg Asn Pro Gln Lys Leu Ile Lys Val Lys Asn
                 95                 100                 105
Asn Ile Asp Val Cys Pro Glu Cys Gly His Leu Lys Gln Lys His
                110                 115                 120
```

```
Val Leu Cys Ala Tyr Cys Tyr Glu Lys Val Cys Lys Glu Thr Ala
                125                 130                 135
Glu Ile Arg Arg Gln Ile Gly Lys Gln Glu Gly Gly Pro Phe Lys
                140                 145                 150
Ala Pro Thr Ile Glu Thr Val Val Leu Tyr Thr Gly Glu Thr Pro
                155                 160                 165
Ser Glu Gln Asp Gln Gly Lys Arg Ile Ile Glu Arg Asp Arg Lys
                170                 175                 180
Arg Pro Ser Trp Phe Thr Gln Asn
                185
```

<210> 9
<211> 531
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 098974

<400> 9

```
Met Ala Pro Thr Ile Gln Thr Gln Ala Gln Arg Glu Asp Gly His
  1               5                  10                  15
Arg Pro Asn Ser His Arg Thr Leu Pro Glu Arg Ser Gly Val Val
                 20                  25                  30
Cys Arg Val Lys Tyr Cys Asn Ser Leu Pro Asp Ile Pro Phe Asp
                 35                  40                  45
Pro Lys Phe Ile Thr Tyr Pro Phe Asp Gln Asn Arg Phe Val Gln
                 50                  55                  60
Tyr Lys Ala Thr Ser Leu Glu Lys Gln His Lys His Asp Leu Leu
                 65                  70                  75
Thr Glu Pro Asp Leu Gly Val Thr Ile Asp Leu Ile Asn Pro Asp
                 80                  85                  90
Thr Tyr Arg Ile Asp Pro Asn Val Leu Leu Asp Pro Ala Asp Glu
                 95                 100                 105
Lys Leu Leu Glu Glu Glu Ile Gln Ala Pro Thr Ser Ser Lys Arg
                110                 115                 120
Ser Gln Gln His Ala Lys Val Val Pro Trp Met Arg Lys Thr Glu
                125                 130                 135
Tyr Ile Ser Thr Glu Phe Asn Arg Tyr Gly Ile Ser Asn Glu Lys
                140                 145                 150
Pro Glu Val Lys Ile Gly Val Ser Val Lys Gln Gln Phe Thr Glu
                155                 160                 165
Glu Glu Ile Tyr Lys Asp Arg Asp Ser Gln Ile Thr Ala Ile Glu
                170                 175                 180
Lys Thr Phe Glu Asp Ala Gln Lys Ser Ile Ser Gln His Tyr Ser
                185                 190                 195
Lys Pro Arg Val Thr Pro Val Glu Val Met Pro Val Phe Pro Asp
                200                 205                 210
Phe Lys Met Trp Ile Asn Pro Cys Ala Gln Val Ile Phe Asp Ser
```

```
                215                 220                 225
Asp Pro Ala Pro Lys Asp Thr Ser Gly Ala Ala Ala Leu Glu Met
                230                 235                 240
Met Ser Gln Ala Met Ile Arg Gly Met Met Asp Glu Glu Gly Asn
                245                 250                 255
Gln Phe Val Ala Tyr Phe Leu Pro Val Glu Glu Thr Leu Lys Lys
                260                 265                 270
Arg Lys Arg Asp Gln Glu Glu Glu Met Asp Tyr Ala Pro Asp Asp
                275                 280                 285
Val Tyr Asp Tyr Lys Ile Ala Arg Glu Tyr Asn Trp Asn Val Lys
                290                 295                 300
Asn Lys Ala Ser Lys Gly Tyr Glu Glu Asn Tyr Phe Phe Ile Phe
                305                 310                 315
Arg Glu Gly Asp Gly Val Tyr Tyr Asn Glu Leu Glu Thr Arg Val
                320                 325                 330
Arg Leu Ser Lys Arg Arg Ala Lys Ala Gly Val Gln Ser Gly Thr
                335                 340                 345
Asn Ala Leu Leu Val Val Lys His Arg Asp Met Asn Glu Lys Glu
                350                 355                 360
Leu Glu Ala Gln Glu Ala Arg Lys Ala Gln Leu Glu Asn His Glu
                365                 370                 375
Pro Glu Glu Glu Glu Glu Glu Glu Met Glu Thr Glu Glu Lys Glu
                380                 385                 390
Ala Gly Gly Ser Asp Glu Glu Gln Glu Lys Gly Ser Ser Ser Glu
                395                 400                 405
Lys Glu Gly Ser Glu Asp Glu His Ser Gly Ser Glu Ser Glu Arg
                410                 415                 420
Glu Glu Gly Asp Arg Asp Glu Ala Ser Asp Lys Ser Gly Ser Gly
                425                 430                 435
Glu Asp Glu Ser Ser Glu Asp Glu Ala Arg Ala Ala Arg Asp Lys
                440                 445                 450
Glu Glu Ile Phe Gly Ser Asp Ala Asp Ser Glu Asp Asp Ala Asp
                455                 460                 465
Ser Asp Asp Glu Asp Arg Gly Gln Ala Gln Gly Gly Ser Asp Asn
                470                 475                 480
Asp Ser Asp Ser Gly Ser Asn Gly Gly Gly Gln Arg Ser Arg Ser
                485                 490                 495
His Ser Arg Ser Ala Ser Pro Phe Pro Ser Gly Ser Glu His Ser
                500                 505                 510
Ala Gln Glu Asp Gly Ser Glu Ala Ala Ala Ser Asp Ser Ser Glu
                515                 520                 525
Ala Asp Ser Asp Ser Asp
                530
```

<210> 10
<211> 348
<212> PRT
<213> Homo sapiens

<220>

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<221> misc_feature
<223> Incyte ID No: 118160

<400> 10

```
Met Gly Gln Glu Glu Glu Leu Leu Arg Ile Ala Lys Lys Leu Glu
  1               5                  10                  15
Lys Met Val Ala Arg Lys Asn Thr Glu Gly Ala Leu Asp Leu Leu
                 20                  25                  30
Lys Lys Leu His Ser Cys Gln Met Ser Ile Gln Leu Leu Gln Thr
                 35                  40                  45
Thr Arg Ile Gly Val Ala Val Asn Gly Val Arg Lys His Cys Ser
                 50                  55                  60
Asp Lys Glu Val Val Ser Leu Ala Lys Val Leu Ile Lys Asn Trp
                 65                  70                  75
Lys Arg Leu Leu Asp Ser Pro Gly Pro Pro Lys Gly Glu Lys Gly
                 80                  85                  90
Glu Glu Arg Glu Lys Ala Lys Lys Lys Glu Lys Gly Leu Glu Cys
                 95                 100                 105
Ser Asp Trp Lys Pro Glu Ala Gly Leu Ser Pro Pro Arg Lys Lys
                110                 115                 120
Arg Glu Asp Pro Lys Thr Arg Arg Asp Ser Val Asp Ser Lys Ser
                125                 130                 135
Ser Ala Ser Ser Ser Pro Lys Arg Pro Ser Val Glu Arg Ser Asn
                140                 145                 150
Ser Ser Lys Ser Lys Ala Glu Ser Pro Lys Thr Pro Ser Ser Pro
                155                 160                 165
Leu Thr Pro Thr Phe Ala Ser Ser Met Cys Leu Leu Ala Pro Cys
                170                 175                 180
Tyr Leu Thr Gly Asp Ser Val Arg Asp Lys Cys Val Glu Met Leu
                185                 190                 195
Ser Ala Ala Leu Lys Ala Asp Asp Asp Tyr Lys Asp Tyr Gly Val
                200                 205                 210
Asn Cys Asp Lys Met Ala Ser Glu Ile Glu Asp His Ile Tyr Gln
                215                 220                 225
Glu Leu Lys Ser Thr Asp Met Lys Tyr Arg Asn Arg Val Arg Ser
                230                 235                 240
Arg Ile Ser Asn Leu Lys Asp Pro Arg Asn Pro Gly Leu Arg Arg
                245                 250                 255
Asn Val Leu Ser Gly Ala Ile Ser Ala Gly Leu Ile Ala Lys Met
                260                 265                 270
Thr Ala Glu Glu Met Ala Ser Asp Glu Leu Arg Glu Leu Arg Asn
                275                 280                 285
Ala Met Thr Gln Glu Ala Ile Arg Glu His Gln Met Ala Lys Thr
                290                 295                 300
Gly Gly Thr Thr Thr Asp Leu Phe Gln Cys Ser Lys Cys Lys Lys
                305                 310                 315
Lys Asn Cys Thr Tyr Asn Gln Val Gln Thr Arg Ser Ala Asp Glu
                320                 325                 330
Pro Met Thr Thr Phe Val Leu Cys Asn Glu Cys Gly Asn Arg Trp
                335                 340                 345
```

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Lys Phe Cys

<210> 11
<211> 393
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 140516

<400> 11

```
Met Arg Thr Leu Phe Asn Leu Leu Trp Leu Ala Leu Ala Cys Ser
  1               5                  10                  15
Pro Val His Thr Thr Leu Ser Lys Ser Asp Ala Lys Lys Ala Ala
                 20                  25                  30
Ser Lys Thr Leu Leu Glu Lys Ser Gln Phe Ser Asp Lys Pro Val
                 35                  40                  45
Gln Asp Arg Gly Leu Val Val Thr Asp Leu Lys Ala Glu Ser Val
                 50                  55                  60
Val Leu Glu His Arg Ser Tyr Cys Ser Ala Lys Ala Arg Asp Arg
                 65                  70                  75
His Phe Ala Gly Asp Val Leu Gly Tyr Val Thr Pro Trp Asn Ser
                 80                  85                  90
His Gly Tyr Asp Val Thr Lys Val Phe Gly Ser Lys Phe Thr Gln
                 95                 100                 105
Ile Ser Pro Val Trp Leu Gln Leu Lys Arg Arg Gly Arg Glu Met
                110                 115                 120
Phe Glu Val Thr Gly Leu His Asp Val Asp Gln Gly Trp Met Arg
                125                 130                 135
Ala Val Arg Lys His Ala Lys Gly Leu His Ile Val Pro Arg Leu
                140                 145                 150
Leu Phe Glu Asp Trp Thr Tyr Asp Asp Phe Arg Asn Val Leu Asp
                155                 160                 165
Ser Glu Asp Glu Ile Glu Glu Leu Ser Lys Thr Val Val Gln Val
                170                 175                 180
Ala Lys Asn Gln His Phe Asp Gly Phe Val Val Glu Val Trp Asn
                185                 190                 195
Gln Leu Leu Ser Gln Lys Arg Val Gly Leu Ile His Met Leu Thr
                200                 205                 210
His Leu Ala Glu Ala Leu His Gln Ala Arg Leu Leu Ala Leu Leu
                215                 220                 225
Val Ile Pro Pro Ala Ile Thr Pro Gly Thr Asp Gln Leu Gly Met
                230                 235                 240
Phe Thr His Lys Glu Phe Glu Gln Leu Ala Pro Val Leu Asp Gly
                245                 250                 255
Phe Ser Leu Met Thr Tyr Asp Tyr Ser Thr Ala His Gln Pro Gly
                260                 265                 270
Pro Asn Ala Pro Leu Ser Trp Val Arg Ala Cys Val Gln Val Leu
```

```
                275                 280                 285
Asp Pro Lys Ser Lys Trp Arg Ser Lys Ile Leu Leu Gly Leu Asn
                290                 295                 300
Phe Tyr Gly Met Asp Tyr Ala Thr Ser Lys Asp Ala Arg Glu Pro
                305                 310                 315
Val Val Gly Ala Arg Tyr Ile Gln Thr Leu Lys Asp His Arg Pro
                320                 325                 330
Arg Met Val Trp Asp Ser Gln Ala Ser Glu His Phe Phe Glu Tyr
                335                 340                 345
Lys Lys Ser Arg Ser Gly Arg His Val Val Phe Tyr Pro Thr Leu
                350                 355                 360
Lys Ser Leu Gln Val Arg Leu Glu Leu Ala Arg Glu Leu Gly Val
                365                 370                 375
Gly Val Ser Ile Trp Glu Leu Gly Gln Gly Leu Asp Tyr Phe Tyr
                380                 385                 390
Asp Leu Leu
```

<210> 12
<211> 320
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 207452

<400> 12

```
Met Val Gly Tyr Asp Pro Lys Pro Asp Gly Arg Asn Asn Thr Lys
  1                 5                  10                  15
Phe Gln Val Ala Val Ala Gly Ser Val Ser Gly Leu Val Thr Arg
                 20                  25                  30
Ala Leu Ile Ser Pro Phe Asp Val Ile Lys Ile Arg Phe Gln Leu
                 35                  40                  45
Gln His Glu Arg Leu Ser Arg Ser Asp Pro Ser Ala Lys Tyr His
                 50                  55                  60
Gly Ile Leu Gln Ala Ser Arg Gln Ile Leu Gln Glu Glu Gly Pro
                 65                  70                  75
Thr Ala Phe Trp Lys Gly His Val Pro Ala Gln Ile Leu Ser Ile
                 80                  85                  90
Gly Tyr Gly Ala Val Gln Phe Leu Ser Phe Glu Met Leu Thr Glu
                 95                 100                 105
Leu Val His Arg Gly Ser Val Tyr Asp Ala Arg Glu Phe Ser Val
                110                 115                 120
His Phe Val Cys Gly Gly Leu Ala Ala Cys Met Ala Thr Leu Thr
                125                 130                 135
Val His Pro Val Asp Val Leu Arg Thr Arg Phe Ala Ala Gln Gly
                140                 145                 150
Glu Pro Lys Val Tyr Asn Thr Leu Arg His Ala Val Gly Thr Met
                155                 160                 165
```

```
Tyr Arg Ser Glu Gly Pro Gln Val Phe Tyr Lys Gly Leu Ala Pro
                170                 175                 180
Thr Leu Ile Ala Ile Phe Pro Tyr Ala Gly Leu Gln Phe Ser Cys
                185                 190                 195
Tyr Ser Ser Leu Lys His Leu Tyr Lys Trp Ala Ile Pro Ala Glu
                200                 205                 210
Gly Lys Lys Asn Glu Asn Leu Gln Asn Leu Leu Cys Gly Ser Gly
                215                 220                 225
Ala Gly Val Ile Ser Lys Thr Leu Thr Tyr Pro Leu Asp Leu Phe
                230                 235                 240
Lys Lys Arg Leu Gln Val Gly Gly Phe Glu His Ala Arg Ala Ala
                245                 250                 255
Phe Gly Gln Val Arg Arg Tyr Lys Gly Leu Met Asp Cys Ala Lys
                260                 265                 270
Gln Val Leu Gln Lys Glu Gly Ala Leu Gly Phe Phe Lys Gly Leu
                275                 280                 285
Ser Pro Ser Leu Leu Lys Ala Ala Leu Ser Thr Gly Phe Met Phe
                290                 295                 300
Phe Ser Tyr Glu Phe Phe Cys Asn Val Phe His Cys Met Asn Arg
                305                 310                 315
Thr Ala Ser Gln Arg
                320
```

<210> 13
<211> 343
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 208836

<400> 13

```
Met Ala Glu Gln Leu Ser Pro Gly Lys Ala Val Asp Gln Val Cys
  1               5                  10                  15
Thr Phe Leu Phe Lys Lys Pro Gly Arg Lys Gly Ala Ala Gly Arg
                 20                  25                  30
Arg Lys Arg Pro Ala Cys Asp Pro Glu Pro Gly Glu Ser Gly Ser
                 35                  40                  45
Ser Ser Asp Glu Gly Cys Thr Val Val Arg Pro Glu Lys Lys Arg
                 50                  55                  60
Val Thr His Asn Pro Met Met Gln Lys Thr Arg Asp Ser Gly Lys
                 65                  70                  75
Gln Lys Ala Ala Tyr Gly Asp Leu Ser Ser Glu Glu Glu Glu Glu
                 80                  85                  90
Asn Glu Pro Glu Ser Leu Gly Val Val Tyr Lys Ser Thr Arg Ser
                 95                 100                 105
Ala Lys Pro Val Gly Pro Glu Asp Met Gly Ala Thr Ala Val Tyr
                110                 115                 120
Glu Leu Asp Thr Glu Lys Glu Arg Asp Ala Gln Ala Ile Phe Glu
```

```
                125                 130                 135
Arg Ser Gln Lys Ile Gln Glu Glu Leu Arg Gly Lys Glu Asp Asp
                140                 145                 150
Lys Ile Tyr Arg Gly Ile Asn Asn Tyr Gln Lys Tyr Met Lys Pro
                155                 160                 165
Lys Asp Thr Ser Met Gly Asn Ala Ser Ser Gly Met Val Arg Lys
                170                 175                 180
Gly Pro Ile Arg Ala Pro Glu His Leu Arg Ala Thr Val Arg Trp
                185                 190                 195
Asp Tyr Gln Pro Asp Ile Cys Lys Asp Tyr Lys Glu Thr Gly Phe
                200                 205                 210
Cys Gly Phe Gly Asp Ser Cys Lys Phe Leu His Asp Arg Ser Asp
                215                 220                 225
Tyr Lys His Gly Trp Gln Ile Glu Arg Glu Leu Asp Glu Gly Arg
                230                 235                 240
Tyr Gly Val Tyr Glu Asp Glu Asn Tyr Glu Val Gly Ser Asp Asp
                245                 250                 255
Glu Glu Ile Pro Phe Lys Cys Phe Ile Cys Arg Gln Ser Phe Gln
                260                 265                 270
Asn Pro Val Val Thr Lys Cys Arg His Tyr Phe Cys Glu Ser Cys
                275                 280                 285
Ala Leu Gln His Phe Arg Thr Thr Pro Arg Cys Tyr Val Cys Asp
                290                 295                 300
Gln Gln Thr Asn Gly Val Phe Asn Pro Ala Lys Glu Leu Ile Ala
                305                 310                 315
Lys Leu Glu Lys His Arg Ala Thr Gly Glu Gly Gly Ala Ser Asp
                320                 325                 330
Leu Pro Glu Asp Pro Asp Glu Asp Ala Ile Pro Ile Thr
                335                 340
```

<210> 14
<211> 368
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 569710

<400> 14

```
Met Ser Ala Gln Ser Val Glu Glu Asp Ser Ile Leu Ile Ile Pro
  1               5                  10                  15
Thr Pro Asp Glu Glu Glu Lys Ile Leu Arg Val Lys Leu Glu Glu
                 20                  25                  30
Asp Pro Asp Gly Glu Glu Gly Ser Ser Ile Pro Trp Asn His Leu
                 35                  40                  45
Pro Asp Pro Glu Ile Phe Arg Gln Arg Phe Arg Gln Phe Gly Tyr
                 50                  55                  60
Gln Asp Ser Pro Gly Pro Arg Glu Ala Val Ser Gln Leu Arg Glu
                 65                  70                  75
```

```
Leu Cys Arg Leu Trp Leu Arg Pro Glu Thr His Thr Lys Glu Gln
                 80                  85                  90
Ile Leu Glu Leu Val Val Leu Glu Gln Phe Val Ala Ile Leu Pro
                 95                 100                 105
Lys Glu Leu Gln Thr Trp Val Arg Asp His His Pro Glu Asn Gly
                110                 115                 120
Glu Glu Ala Val Thr Val Leu Glu Asp Leu Glu Ser Glu Leu Asp
                125                 130                 135
Asp Pro Gly Gln Pro Val Ser Leu Arg Arg Arg Lys Arg Glu Val
                140                 145                 150
Leu Val Glu Asp Met Val Ser Gln Glu Glu Ala Gln Gly Leu Pro
                155                 160                 165
Ser Ser Glu Leu Asp Ala Val Glu Asn Gln Leu Lys Trp Ala Ser
                170                 175                 180
Trp Glu Leu His Ser Leu Arg His Cys Asp Asp Asp Gly Arg Thr
                185                 190                 195
Glu Asn Gly Ala Leu Ala Pro Lys Gln Glu Leu Pro Ser Ala Leu
                200                 205                 210
Glu Ser His Glu Val Pro Gly Thr Leu Ser Met Gly Val Pro Gln
                215                 220                 225
Ile Phe Lys Tyr Gly Glu Thr Cys Phe Pro Lys Gly Arg Phe Glu
                230                 235                 240
Arg Lys Arg Asn Pro Ser Arg Lys Lys Gln His Ile Cys Asp Glu
                245                 250                 255
Cys Gly Lys His Phe Ser Gln Gly Ser Ala Leu Ile Leu His Gln
                260                 265                 270
Arg Ile His Ser Gly Glu Lys Pro Tyr Gly Cys Val Glu Cys Gly
                275                 280                 285
Lys Ala Phe Ser Arg Ser Ser Ile Leu Val Gln His Gln Arg Val
                290                 295                 300
His Thr Gly Glu Lys Pro Tyr Lys Cys Leu Glu Cys Gly Lys Ala
                305                 310                 315
Phe Ser Gln Asn Ser Gly Leu Ile Asn His Gln Arg Ile His Thr
                320                 325                 330
Gly Glu Lys Pro Tyr Glu Cys Val Gln Cys Gly Lys Ser Tyr Ser
                335                 340                 345
Gln Ser Ser Asn Leu Phe Arg His Gln Arg Arg His Asn Ala Glu
                350                 355                 360
Lys Leu Leu Asn Val Val Lys Val
                365
```

<210> 15
<211> 158
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 606742

<400> 15
Met Glu Gly Pro Arg Arg Gly Pro Glu Val Gly Gly Phe Cys Lys
1 5 10 15
Tyr Arg Leu Leu Arg Val Ser Arg Ala Leu Cys His Asp Thr Ser
20 25 30
Leu Gly Leu Thr Trp Leu Arg Thr Cys Ser Val Arg Gly Phe Val
35 40 45
Arg Thr Leu Pro Phe Cys Leu Lys Leu Lys Ala Lys Glu Asn Asp
50 55 60
Arg Arg Leu Arg Thr Glu Leu Thr Leu Ala Pro Gly Trp Glu Ala
65 70 75
Ala Ala Leu Leu Asp Ala Thr Tyr Cys Lys Trp Pro Glu Tyr Gln
80 85 90
Arg Gly Gly Phe His Gly Gln Met His Ser Arg Cys Leu Pro Leu
95 100 105
His Leu Asp His Leu Val Val Phe Lys Phe Leu Val Pro Glu Ala
110 115 120
Lys Ser Thr Thr Cys Leu Leu Val Thr Cys Leu Pro Ala Val Val
125 130 135
Val Asp Val Leu Ala Gly Arg Phe Gly Ile Ser His Gln Ser Phe
140 145 150
Cys Thr Val Leu Val Ser Ser Ile
155

<210> 16
<211> 334
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 611135

<400> 16
Met Ala Thr Arg Gln Arg Glu Ser Ser Ile Thr Ser Cys Cys Ser
1 5 10 15
Thr Ser Ser Cys Asp Ala Asp Asp Glu Gly Val Arg Gly Thr Cys
20 25 30
Glu Asp Ala Ser Leu Cys Lys Arg Phe Ala Val Ser Ile Gly Tyr
35 40 45
Trp His Asp Pro Tyr Ile Gln His Phe Val Arg Leu Ser Lys Glu
50 55 60
Arg Lys Ala Pro Glu Ile Asn Arg Gly Tyr Phe Ala Arg Val His
65 70 75
Gly Val Ser Gln Leu Ile Lys Ala Phe Leu Arg Lys Thr Glu Cys
80 85 90
His Cys Gln Ile Val Asn Leu Gly Ala Gly Met Asp Thr Thr Phe
95 100 105
Trp Arg Leu Lys Asp Glu Asp Leu Leu Pro Ser Lys Tyr Phe Glu
110 115 120

```
Val Asp Phe Pro Met Ile Val Thr Arg Lys Leu His Ser Ile Lys
                125                 130                 135
Cys Lys Pro Pro Leu Ser Ser Pro Ile Leu Glu Leu His Ser Glu
                140                 145                 150
Asp Thr Leu Gln Met Asp Gly His Ile Leu Asp Ser Lys Arg Tyr
                155                 160                 165
Ala Val Ile Gly Ala Asp Leu Arg Asp Leu Ser Glu Leu Glu Glu
                170                 175                 180
Lys Leu Lys Lys Cys Asn Met Asn Thr Gln Leu Pro Thr Leu Leu
                185                 190                 195
Ile Ala Glu Cys Val Leu Val Tyr Met Thr Pro Glu Gln Ser Ala
                200                 205                 210
Asn Leu Leu Lys Trp Ala Ala Asn Ser Phe Glu Arg Ala Met Phe
                215                 220                 225
Ile Asn Tyr Glu Gln Val Asn Met Gly Asp Arg Phe Gly Gln Ile
                230                 235                 240
Met Ile Glu Asn Leu Arg Arg Arg Gln Cys Asp Leu Ala Gly Val
                245                 250                 255
Glu Thr Cys Lys Ser Leu Glu Ser Gln Lys Glu Arg Leu Leu Ser
                260                 265                 270
Asn Gly Trp Glu Thr Ala Ser Ala Val Asp Met Met Glu Leu Tyr
                275                 280                 285
Asn Arg Leu Pro Arg Ala Glu Val Ser Arg Ile Glu Ser Leu Glu
                290                 295                 300
Phe Leu Asp Glu Met Glu Leu Leu Glu Gln Leu Met Arg His Tyr
                305                 310                 315
Cys Leu Cys Trp Ala Thr Lys Gly Gly Asn Glu Leu Gly Leu Lys
                320                 325                 330
Glu Ile Thr Tyr
```

<210> 17
<211> 488
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 641127

<400> 17

```
Met Ala Ser Thr Ile Thr Gly Ser Gln Asp Cys Ile Val Asn His
  1               5                  10                  15
Arg Gly Glu Val Asp Gly Glu Pro Glu Leu Asp Ile Ser Pro Cys
                20                  25                  30
Gln Gln Trp Gly Glu Ala Ser Ser Pro Ile Ser Arg Asn Arg Asp
                35                  40                  45
Ser Val Met Thr Leu Gln Ser Gly Cys Phe Glu Asn Ile Glu Ser
                50                  55                  60
Glu Thr Tyr Leu Pro Leu Lys Val Ser Ser Gln Ile Asp Thr Gln
```

```
                  65                  70                  75
Asp Ser Ser Val Lys Phe Cys Lys Asn Glu Pro Gln Asp His Gln
                  80                  85                  90
Glu Ser Arg Arg Leu Phe Val Met Glu Glu Ser Thr Glu Arg Lys
                  95                 100                 105
Val Ile Lys Gly Glu Ser Cys Ser Glu Asn Leu Gln Val Lys Leu
                 110                 115                 120
Val Ser Asp Gly Gln Glu Leu Ala Ser Pro Leu Leu Asn Gly Glu
                 125                 130                 135
Ala Thr Cys Gln Asn Gly Gln Leu Lys Glu Ser Leu Asp Pro Ile
                 140                 145                 150
Asp Cys Asn Cys Lys Asp Ile His Gly Trp Lys Ser Gln Val Val
                 155                 160                 165
Ser Cys Ser Gln Gln Arg Gly His Thr Glu Glu Lys Pro Cys Asp
                 170                 175                 180
His Asn Asn Cys Gly Lys Ile Leu Asn Thr Ser Pro Asp Gly His
                 185                 190                 195
Pro Tyr Glu Lys Ile His Thr Ala Glu Lys Gln Tyr Glu Gly Ser
                 200                 205                 210
Gln Cys Gly Lys Asn Phe Ser Gln Ser Ser Glu Leu Leu Leu His
                 215                 220                 225
Gln Arg Asp His Thr Glu Glu Lys Pro Tyr Lys Cys Glu Gln Cys
                 230                 235                 240
Gly Lys Gly Phe Thr Arg Ser Ser Ser Leu Leu Ile His Gln Ala
                 245                 250                 255
Val His Thr Asp Glu Lys Pro Tyr Lys Cys Asp Lys Cys Gly Lys
                 260                 265                 270
Gly Phe Thr Arg Ser Ser Ser Leu Leu Ile His His Ala Val His
                 275                 280                 285
Thr Gly Glu Lys Pro Tyr Lys Cys Asp Lys Cys Gly Lys Gly Phe
                 290                 295                 300
Ser Gln Ser Ser Lys Leu His Ile His Gln Arg Val His Thr Gly
                 305                 310                 315
Glu Lys Pro Tyr Glu Cys Glu Glu Cys Gly Met Ser Phe Ser Gln
                 320                 325                 330
Arg Ser Asn Leu His Ile His Gln Arg Val His Thr Gly Glu Arg
                 335                 340                 345
Pro Tyr Lys Cys Gly Glu Cys Gly Lys Gly Phe Ser Gln Ser Ser
                 350                 355                 360
Asn Leu His Ile His Arg Cys Ile His Thr Gly Glu Lys Pro Tyr
                 365                 370                 375
Gln Cys Tyr Glu Cys Gly Lys Gly Phe Ser Gln Ser Ser Asp Leu
                 380                 385                 390
Arg Ile His Leu Arg Val His Thr Gly Glu Lys Pro Tyr His Cys
                 395                 400                 405
Gly Lys Cys Gly Lys Gly Phe Ser Gln Ser Ser Lys Leu Leu Ile
                 410                 415                 420
His Gln Arg Val His Thr Gly Glu Lys Pro Tyr Glu Cys Ser Lys
                 425                 430                 435
Cys Gly Lys Gly Phe Ser Gln Ser Ser Asn Leu His Ile His Gln
```

```
                440                 445                 450
Arg Val His Lys Arg Asp Pro Arg Ala His Pro Gly Leu His Ser
                455                 460                 465
Ala His Thr Val Asn Thr Val Lys Tyr Leu Val Ser Leu Leu Leu
                470                 475                 480
Tyr Ile Leu Gln Arg Arg Glu Met
                485
```

<210> 18
<211> 255
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 691768

<220>
<221> unsure
<222> 216, 218, 230, 233, 246, 250
<223> unknown or other

<400> 18

```
Met Gly Arg Asn Lys Lys Lys Lys Arg Asp Gly Asp Asp Arg Arg
  1               5                  10                  15
Pro Arg Leu Val Leu Ser Phe Asp Glu Glu Lys Arg Arg Glu Tyr
                20                  25                  30
Leu Thr Gly Phe His Lys Arg Lys Val Glu Arg Lys Lys Ala Ala
                35                  40                  45
Ile Glu Glu Ile Lys Gln Arg Leu Lys Glu Glu Gln Arg Lys Leu
                50                  55                  60
Arg Glu Glu Arg His Gln Glu Tyr Leu Lys Met Leu Ala Glu Arg
                65                  70                  75
Glu Glu Ala Leu Glu Glu Ala Asp Glu Leu Asp Arg Leu Val Thr
                80                  85                  90
Ala Lys Thr Glu Ser Val Gln Tyr Asp His Pro Asn His Thr Val
                95                 100                 105
Thr Val Thr Thr Ile Ser Asp Leu Asp Leu Ser Gly Ala Arg Leu
                110                 115                 120
Leu Gly Leu Thr Pro Pro Glu Gly Gly Ala Gly Asp Arg Ser Glu
                125                 130                 135
Glu Glu Ala Ser Ser Thr Glu Lys Pro Thr Lys Ala Leu Pro Arg
                140                 145                 150
Lys Ser Arg Asp Pro Leu Leu Ser Gln Arg Ile Ser Ser Leu Thr
                155                 160                 165
Ala Ser Leu His Ala His Ser Arg Lys Lys Val Lys Arg Lys His
                170                 175                 180
Ser Arg Arg Ala Gln Asp Ser Lys Lys Pro Pro Lys Gly Pro Ser
                185                 190                 195
Tyr Gln Gln Arg Pro Ser Gly Ala Val Phe Thr Gly Lys Ala Pro
```

```
                200                 205                 210
Ala Gln Arg Gly Asn Xaa Arg Xaa Glu Asn Glu Ala Gly Cys Pro
                215                 220                 225
His Ser Lys Ala Xaa Arg Gly Xaa Cys Ser Leu Gly Ser Ala Leu
                230                 235                 240
Ala Val Pro Leu Leu Xaa Pro Ala Leu Xaa Leu Lys Val Leu Pro
                245                 250                 255
```

<210> 19
<211> 351
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 724157

<400> 19

```
Met Ala Asp Gln Asp Pro Ala Gly Ile Ser Pro Leu Gln Gln Met
  1               5                  10                  15
Val Ala Ser Gly Thr Gly Ala Val Val Thr Ser Leu Phe Met Thr
                 20                  25                  30
Pro Leu Asp Val Val Lys Val Arg Leu Gln Ser Gln Arg Pro Ser
                 35                  40                  45
Met Ala Ser Glu Leu Met Pro Ser Ser Arg Leu Trp Ser Leu Ser
                 50                  55                  60
Tyr Thr Lys Trp Lys Cys Leu Leu Tyr Cys Asn Gly Val Leu Glu
                 65                  70                  75
Pro Leu Tyr Leu Cys Pro Asn Gly Ala Arg Cys Ala Thr Trp Phe
                 80                  85                  90
Gln Asp Pro Thr Arg Phe Thr Gly Thr Met Asp Ala Phe Val Lys
                 95                 100                 105
Ile Val Arg His Glu Gly Thr Arg Thr Leu Trp Ser Gly Leu Pro
                110                 115                 120
Ala Thr Leu Val Met Thr Val Pro Ala Thr Ala Ile Tyr Phe Thr
                125                 130                 135
Ala Tyr Asp Gln Leu Lys Ala Phe Leu Cys Gly Arg Ala Leu Thr
                140                 145                 150
Ser Asp Leu Tyr Ala Pro Met Val Ala Gly Ala Leu Ala Arg Leu
                155                 160                 165
Gly Thr Val Thr Val Ile Ser Pro Leu Glu Leu Met Arg Thr Lys
                170                 175                 180
Leu Gln Ala Gln His Val Ser Tyr Arg Glu Leu Gly Ala Cys Val
                185                 190                 195
Arg Thr Ala Val Ala Gln Gly Gly Trp Arg Ser Leu Trp Leu Gly
                200                 205                 210
Trp Gly Pro Thr Ala Leu Arg Asp Val Pro Phe Ser Ala Leu Tyr
                215                 220                 225
Trp Phe Asn Tyr Glu Leu Val Lys Ser Trp Leu Asn Gly Leu Arg
```

```
                230                 235                 240
Pro Lys Asp Gln Thr Ser Val Gly Met Ser Phe Val Ala Gly Gly
                245                 250                 255
Ile Ser Gly Thr Val Ala Ala Val Leu Thr Leu Pro Phe Asp Val
                260                 265                 270
Val Lys Thr Gln Arg Gln Val Ala Leu Gly Ala Met Glu Ala Val
                275                 280                 285
Arg Val Asn Pro Leu His Val Asp Ser Thr Trp Leu Leu Leu Arg
                290                 295                 300
Arg Ile Arg Ala Glu Ser Gly Thr Lys Gly Leu Phe Ala Gly Phe
                305                 310                 315
Leu Pro Arg Ile Ile Lys Ala Ala Pro Ser Cys Ala Ile Met Ile
                320                 325                 330
Ser Thr Tyr Glu Phe Gly Lys Ser Phe Phe Gln Arg Leu Asn Gln
                335                 340                 345
Asp Arg Leu Leu Gly Gly
                350
```

<210> 20
<211> 535
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 864683

<400> 20

```
Met Ser Glu Gly Glu Ser Gln Thr Val Leu Ser Ser Gly Ser Asp
  1               5                  10                  15
Pro Lys Val Glu Ser Ser Ser Ser Ala Pro Gly Leu Thr Ser Val
                 20                  25                  30
Ser Pro Pro Val Thr Ser Thr Thr Ser Ala Ala Ser Pro Glu Glu
                 35                  40                  45
Glu Glu Glu Ser Glu Asp Glu Ser Glu Ile Leu Glu Glu Ser Pro
                 50                  55                  60
Cys Gly Arg Trp Gln Lys Arg Arg Glu Glu Val Asn Gln Arg Asn
                 65                  70                  75
Val Pro Gly Ile Asp Ser Ala Tyr Leu Ala Met Asp Thr Glu Glu
                 80                  85                  90
Gly Val Glu Val Val Trp Asn Glu Val Gln Phe Ser Glu Arg Lys
                 95                 100                 105
Asn Tyr Lys Leu Gln Glu Glu Lys Val Arg Ala Val Phe Asp Asn
                110                 115                 120
Leu Ile Gln Leu Glu His Leu Asn Ile Val Lys Phe His Lys Tyr
                125                 130                 135
Trp Ala Asp Ile Lys Glu Asn Lys Ala Arg Val Ile Phe Ile Thr
                140                 145                 150
Glu Tyr Met Ser Ser Gly Ser Leu Lys Gln Phe Leu Lys Lys Thr
                155                 160                 165
```

```
Lys Lys Asn His Lys Thr Met Asn Glu Lys Ala Trp Lys Arg Trp
                170                 175                 180
Cys Thr Gln Ile Leu Ser Ala Leu Ser Tyr Leu His Ser Cys Asp
                185                 190                 195
Pro Pro Ile Ile His Gly Asn Leu Thr Cys Asp Thr Ile Phe Ile
                200                 205                 210
Gln His Asn Gly Leu Ile Lys Ile Gly Ser Val Ala Pro Asp Thr
                215                 220                 225
Ile Asn Asn His Val Lys Thr Cys Arg Glu Glu Gln Lys Asn Leu
                230                 235                 240
His Phe Phe Ala Pro Glu Tyr Gly Glu Val Thr Asn Val Thr Thr
                245                 250                 255
Ala Val Asp Ile Tyr Ser Phe Gly Met Cys Ala Leu Glu Met Ala
                260                 265                 270
Val Leu Glu Ile Gln Gly Asn Gly Glu Ser Ser Tyr Val Pro Gln
                275                 280                 285
Glu Ala Ile Ser Ser Ala Ile Gln Leu Leu Glu Asp Pro Leu Gln
                290                 295                 300
Arg Glu Phe Ile Gln Lys Cys Leu Gln Ser Glu Pro Ala Arg Arg
                305                 310                 315
Pro Thr Ala Arg Glu Leu Leu Phe His Pro Ala Leu Phe Glu Val
                320                 325                 330
Pro Ser Leu Lys Leu Leu Ala Ala His Cys Ile Val Gly His Gln
                335                 340                 345
His Met Ile Pro Glu Asn Ala Leu Glu Glu Ile Thr Lys Asn Met
                350                 355                 360
Asp Thr Ser Ala Val Leu Ala Glu Ile Pro Ala Gly Pro Gly Arg
                365                 370                 375
Glu Pro Val Gln Thr Leu Tyr Ser Gln Ser Pro Ala Leu Glu Leu
                380                 385                 390
Asp Lys Phe Leu Glu Asp Val Arg Asn Gly Ile Tyr Pro Leu Thr
                395                 400                 405
Ala Phe Gly Leu Pro Arg Pro Gln Gln Pro Gln Gln Glu Glu Val
                410                 415                 420
Thr Ser Pro Val Val Pro Pro Ser Val Lys Thr Pro Thr Pro Glu
                425                 430                 435
Pro Ala Glu Val Glu Thr Arg Lys Val Val Leu Met Gln Cys Asn
                440                 445                 450
Ile Glu Ser Val Glu Glu Gly Val Lys His His Leu Thr Leu Leu
                455                 460                 465
Leu Lys Leu Glu Asp Lys Leu Asn Arg His Leu Ser Cys Asp Leu
                470                 475                 480
Met Pro Asn Glu Asn Ile Pro Glu Leu Ala Ala Glu Leu Val Gln
                485                 490                 495
Leu Gly Phe Ile Ser Glu Ala Asp Gln Ser Arg Leu Thr Ser Leu
                500                 505                 510
Leu Glu Glu Thr Leu Asn Lys Phe Asn Phe Ala Arg Asn Ser Thr
                515                 520                 525
Leu Asn Ser Ala Ala Val Thr Val Ser Ser
                530                 535
```

<210> 21
<211> 201
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 933353

<400> 21
Met Ala Ala Thr Ala Leu Leu Glu Ala Gly Leu Ala Arg Val Leu
1 5 10 15
Phe Tyr Pro Thr Leu Leu Tyr Thr Leu Phe Arg Gly Lys Val Pro
20 25 30
Gly Arg Ala His Arg Asp Trp Tyr His Arg Ile Asp Pro Thr Val
35 40 45
Leu Leu Gly Ala Leu Pro Leu Arg Ser Leu Thr Arg Gln Leu Val
50 55 60
Gln Asp Glu Asn Val Arg Gly Val Ile Thr Met Asn Glu Glu Tyr
65 70 75
Glu Thr Arg Phe Leu Cys Asn Ser Ser Gln Glu Trp Lys Arg Leu
80 85 90
Gly Val Glu Gln Leu Arg Leu Ser Thr Val Asp Met Thr Gly Ile
95 100 105
Pro Thr Leu Asp Asn Leu Gln Lys Gly Val Gln Phe Ala Leu Lys
110 115 120
Tyr Gln Ser Leu Gly Gln Cys Val Tyr Val His Cys Lys Ala Gly
125 130 135
Arg Ser Arg Ser Ala Thr Met Val Ala Ala Tyr Leu Ile Gln Val
140 145 150
His Lys Trp Ser Pro Glu Glu Ala Val Arg Ala Ile Ala Lys Ile
155 160 165
Arg Ser Tyr Ile His Ile Arg Pro Gly Gln Leu Asp Val Leu Lys
170 175 180
Glu Phe His Lys Gln Ile Thr Ala Arg Ala Thr Lys Asp Gly Thr
185 190 195
Phe Val Ile Ser Lys Thr
200

<210> 22
<211> 239
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1404643

<400> 22
Met Ala Tyr Gln Ser Leu Arg Leu Glu Tyr Leu Gln Ile Pro Pro

```
  1               5                  10                  15
Val Ser Arg Ala Tyr Thr Thr Ala Cys Val Leu Thr Thr Ala Ala
                 20                  25                  30
Val Gln Leu Glu Leu Ile Thr Pro Phe Gln Leu Tyr Phe Asn Pro
                 35                  40                  45
Glu Leu Ile Phe Lys His Phe Gln Ile Trp Arg Leu Ile Thr Asn
                 50                  55                  60
Phe Leu Phe Phe Gly Pro Val Gly Phe Asn Phe Leu Phe Asn Met
                 65                  70                  75
Ile Phe Leu Tyr Arg Tyr Cys Arg Met Leu Glu Glu Gly Ser Phe
                 80                  85                  90
Arg Gly Arg Thr Ala Asp Phe Val Phe Met Phe Leu Phe Gly Gly
                 95                 100                 105
Phe Leu Met Thr Leu Phe Gly Leu Phe Val Ser Leu Val Phe Leu
                110                 115                 120
Gly Gln Ala Phe Thr Ile Met Leu Val Tyr Val Trp Ser Arg Arg
                125                 130                 135
Asn Pro Tyr Val Arg Met Asn Phe Phe Gly Leu Leu Asn Phe Gln
                140                 145                 150
Ala Pro Phe Leu Pro Trp Val Leu Met Gly Phe Ser Leu Leu Leu
                155                 160                 165
Gly Asn Ser Ile Ile Val Asp Leu Leu Gly Ile Ala Val Gly His
                170                 175                 180
Ile Tyr Phe Phe Leu Glu Asp Val Phe Pro Asn Gln Pro Gly Gly
                185                 190                 195
Ile Arg Ile Leu Lys Thr Pro Ser Ile Leu Lys Ala Ile Phe Asp
                200                 205                 210
Thr Pro Asp Glu Asp Pro Asn Tyr Asn Pro Leu Pro Glu Glu Arg
                215                 220                 225
Pro Gly Gly Phe Ala Trp Gly Glu Gly Gln Arg Leu Gly Gly
                230                 235
```

<210> 23
<211> 244
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1561587

<400> 23

```
Met Met Arg Thr Gln Cys Leu Leu Gly Leu Arg Thr Phe Val Ala
  1               5                  10                  15
Phe Ala Ala Lys Leu Trp Ser Phe Phe Ile Tyr Leu Leu Arg Arg
                 20                  25                  30
Gln Ile Arg Thr Val Ile Gln Tyr Gln Thr Val Arg Tyr Asp Ile
                 35                  40                  45
Leu Pro Leu Ser Pro Val Ser Arg Asn Arg Leu Ala Gln Val Lys
                 50                  55                  60
```

```
Arg Lys Ile Leu Val Leu Asp Leu Asp Glu Thr Leu Ile His Ser
                 65                  70                  75
His His Asp Gly Val Leu Arg Pro Thr Val Arg Pro Gly Thr Pro
                 80                  85                  90
Pro Asp Phe Ile Leu Lys Val Val Ile Asp Lys His Pro Val Arg
                 95                 100                 105
Phe Phe Val His Lys Arg Pro His Val Asp Phe Phe Leu Glu Val
                110                 115                 120
Val Ser Gln Trp Tyr Glu Leu Val Val Phe Thr Ala Ser Met Glu
                125                 130                 135
Ile Tyr Gly Ser Ala Val Ala Asp Lys Leu Asp Asn Ser Arg Ser
                140                 145                 150
Ile Leu Lys Arg Arg Tyr Tyr Arg Gln His Cys Thr Leu Glu Leu
                155                 160                 165
Gly Ser Tyr Ile Lys Asp Leu Ser Val Val His Ser Asp Leu Ser
                170                 175                 180
Ser Ile Val Ile Leu Asp Asn Ser Pro Gly Ala Tyr Arg Ser His
                185                 190                 195
Pro Asp Asn Ala Ile Pro Ile Lys Ser Trp Phe Ser Asp Pro Ser
                200                 205                 210
Asp Thr Ala Leu Leu Asn Leu Leu Pro Met Leu Asp Ala Leu Arg
                215                 220                 225
Phe Thr Ala Asp Val Arg Ser Val Leu Ser Arg Asn Leu His Gln
                230                 235                 240
His Arg Leu Trp
```


<210> 24
<211> 431
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1568361

<220>
<221> unsure
<222> 218
<223> unknown or other

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<400> 24
Met Ser Ser Val Glu Glu Asp Asp Tyr Asp Thr Leu Thr Asp Ile
  1               5                  10                  15
Asp Ser Asp Lys Asn Val Ile Arg Thr Lys Gln Tyr Leu Tyr Val
                 20                  25                  30
Ala Asp Leu Ala Arg Lys Asp Lys Arg Val Leu Arg Lys Lys Tyr
                 35                  40                  45
Gln Ile Tyr Phe Trp Asn Ile Ala Thr Ile Ala Val Phe Tyr Ala
                 50                  55                  60
```

```
Leu Pro Val Val Gln Leu Val Ile Thr Tyr Gln Thr Val Val Asn
                65                  70                  75
Val Thr Gly Asn Gln Asp Ile Cys Tyr Tyr Asn Phe Leu Cys Ala
                80                  85                  90
His Pro Leu Gly Asn Leu Ser Ala Phe Asn Asn Ile Leu Ser Asn
                95                 100                 105
Leu Gly Tyr Ile Leu Leu Gly Leu Leu Phe Leu Leu Ile Ile Leu
               110                 115                 120
Gln Arg Glu Ile Asn His Asn Arg Ala Leu Leu Arg Asn Asp Leu
               125                 130                 135
Cys Ala Leu Glu Cys Gly Ile Pro Lys His Phe Gly Leu Phe Tyr
               140                 145                 150
Ala Met Gly Thr Ala Leu Met Met Glu Gly Leu Leu Ser Ala Cys
               155                 160                 165
Tyr His Val Cys Pro Asn Tyr Thr Asn Phe Gln Phe Asp Thr Ser
               170                 175                 180
Phe Met Tyr Met Ile Ala Gly Leu Cys Met Leu Lys Leu Tyr Gln
               185                 190                 195
Lys Arg His Pro Asp Ile Asn Ala Ser Ala Tyr Ser Ala Tyr Ala
               200                 205                 210
Cys Leu Ala Ile Val Ile Phe Xaa Ser Val Leu Gly Val Val Phe
               215                 220                 225
Gly Lys Gly Asn Thr Ala Phe Trp Ile Val Phe Ser Ile Ile His
               230                 235                 240
Ile Ile Ala Thr Leu Leu Leu Ser Thr Gln Leu Tyr Tyr Met Gly
               245                 250                 255
Arg Trp Lys Leu Asp Ser Gly Ile Phe Arg Arg Ile Leu His Val
               260                 265                 270
Leu Tyr Thr Asp Cys Ile Arg Gln Cys Ser Gly Pro Leu Tyr Val
               275                 280                 285
Asp Arg Met Val Leu Leu Val Met Gly Asn Val Ile Asn Trp Ser
               290                 295                 300
Leu Ala Ala Tyr Gly Leu Ile Met Arg Pro Asn Asp Phe Ala Ser
               305                 310                 315
Tyr Leu Leu Ala Ile Gly Ile Cys Asn Leu Leu Leu Tyr Phe Ala
               320                 325                 330
Phe Tyr Ile Ile Met Lys Leu Arg Ser Gly Glu Arg Ile Lys Leu
               335                 340                 345
Ile Pro Leu Leu Cys Ile Val Cys Thr Ser Val Val Trp Gly Phe
               350                 355                 360
Ala Leu Phe Phe Phe Phe Gln Gly Leu Ser Thr Trp Gln Lys Thr
               365                 370                 375
Pro Ala Glu Ser Arg Glu His Asn Arg Asp Cys Ile Leu Leu Asp
               380                 385                 390
Phe Phe Asp Asp His Asp Ile Trp His Phe Leu Ser Ser Ile Ala
               395                 400                 405
Met Phe Gly Ser Phe Leu Val Leu Leu Thr Leu Asp Asp Asp Leu
               410                 415                 420
Asp Thr Val Gln Arg Asp Lys Ile Tyr Val Phe
               425                 430
```

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<210> 25
<211> 376
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1572888

<400> 25

```
Met Gly His Arg Phe Leu Arg Gly Leu Leu Thr Leu Leu Leu Pro
  1               5                  10                  15
Pro Pro Pro Leu Tyr Thr Arg His Arg Met Leu Gly Pro Glu Ser
             20                  25                  30
Val Pro Pro Pro Lys Arg Ser Arg Ser Lys Leu Met Ala Pro Pro
             35                  40                  45
Arg Ile Gly Thr His Asn Gly Thr Phe His Cys Asp Glu Ala Leu
             50                  55                  60
Ala Cys Ala Leu Leu Arg Leu Leu Pro Glu Tyr Arg Asp Ala Glu
             65                  70                  75
Ile Val Arg Thr Arg Asp Pro Glu Lys Leu Ala Ser Cys Asp Ile
             80                  85                  90
Val Val Asp Val Gly Gly Glu Tyr Asp Pro Arg Arg His Arg Tyr
             95                 100                 105
Asp His His Gln Arg Ser Phe Thr Glu Thr Met Ser Ser Leu Ser
            110                 115                 120
Pro Gly Lys Pro Trp Gln Thr Lys Leu Ser Ser Ala Gly Leu Ile
            125                 130                 135
Tyr Leu His Phe Gly His Lys Leu Leu Ala Gln Leu Leu Gly Thr
            140                 145                 150
Ser Glu Glu Asp Ser Met Val Gly Thr Leu Tyr Asp Lys Met Tyr
            155                 160                 165
Glu Asn Phe Val Glu Glu Val Asp Ala Val Asp Asn Gly Ile Ser
            170                 175                 180
Gln Trp Ala Glu Gly Glu Pro Arg Tyr Ala Leu Thr Thr Thr Leu
            185                 190                 195
Ser Ala Arg Val Ala Arg Leu Asn Pro Thr Trp Asn His Pro Asp
            200                 205                 210
Gln Asp Thr Glu Ala Gly Phe Lys Arg Ala Met Asp Leu Val Gln
            215                 220                 225
Glu Glu Phe Leu Gln Arg Leu Asp Phe Tyr Gln His Ser Trp Leu
            230                 235                 240
Pro Ala Arg Ala Leu Val Glu Glu Ala Leu Ala Gln Arg Phe Gln
            245                 250                 255
Val Asp Pro Ser Gly Glu Ile Val Glu Leu Ala Lys Gly Ala Cys
            260                 265                 270
Pro Trp Lys Glu His Leu Tyr His Leu Glu Ser Gly Leu Ser Pro
            275                 280                 285
Pro Val Ala Ile Phe Phe Val Ile Tyr Thr Asp Gln Ala Gly Gln
            290                 295                 300
```

```
Trp Arg Ile Gln Cys Val Pro Lys Glu Pro His Ser Phe Gln Ser
                305                 310                 315
Arg Leu Pro Leu Pro Glu Pro Trp Arg Gly Leu Arg Asp Glu Ala
                320                 325                 330
Leu Asp Gln Val Ser Gly Ile Pro Gly Cys Ile Phe Val His Ala
                335                 340                 345
Ser Gly Phe Ile Gly Gly His Arg Thr Arg Glu Gly Ala Leu Ser
                350                 355                 360
Met Ala Arg Ala Thr Leu Ala Gln Arg Ser Tyr Leu Pro Gln Ile
                365                 370                 375
Ser
```

<210> 26
<211> 340
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1573677

<400> 26

```
Met Arg Leu Arg Gly Leu Leu Gln Gly Thr Leu Arg Phe His Thr
  1               5                  10                  15
Ser Pro Pro Thr Asp Ser Ser Val Thr Glu Thr Ile Ile Leu Cys
                20                  25                  30
Thr Met Leu Phe Leu Gly Ser Leu Gly Ala Trp Gly Thr Thr Ser
                35                  40                  45
Ile Ser Thr Gly Ser Ile Phe Ser Leu Lys Thr Leu Arg Ser Gln
                50                  55                  60
His Gly Gly Gln Val Gly Leu Lys Val Ser Arg Pro Arg Ala Gln
                65                  70                  75
Pro Leu Pro Ala Gln Pro Pro Ala Leu Ala Gln Pro Gln Tyr Gln
                80                  85                  90
Ser Pro Gln Gln Pro Pro Gln Thr Arg Trp Val Ala Pro Arg Asn
                95                 100                 105
Arg Asn Ala Ala Phe Gly Gln Ser Gly Gly Ala Gly Ser Asp Ser
               110                 115                 120
Asn Ser Pro Gly Asn Val Gln Pro Asn Ser Ala Pro Ser Val Glu
               125                 130                 135
Ser His Pro Val Leu Glu Lys Leu Lys Ala Ala His Ser Tyr Asn
               140                 145                 150
Pro Lys Glu Phe Glu Trp Asn Leu Lys Ser Gly Arg Val Phe Ile
               155                 160                 165
Ile Lys Ser Tyr Ser Glu Asp Asp Ile His Arg Ser Ile Lys Tyr
               170                 175                 180
Ser Ile Trp Cys Ser Thr Glu His Gly Asn Lys Arg Leu Asp Ser
               185                 190                 195
Ala Phe Arg Cys Met Ser Ser Lys Gly Pro Val Tyr Leu Leu Phe
```

200 205 210
Ser Val Asn Gly Ser Gly His Phe Cys Gly Val Ala Glu Met Lys
215 220 225
Ser Pro Val Asp Tyr Gly Thr Ser Ala Gly Val Trp Ser Gln Asp
230 235 240
Lys Trp Lys Gly Lys Phe Asp Val Gln Trp Ile Phe Val Lys Asp
245 250 255
Val Pro Asn Asn Gln Leu Arg His Ile Arg Leu Glu Asn Asn Asp
260 265 270
Asn Lys Pro Val Thr Asn Ser Arg Asp Thr Gln Glu Val Pro Leu
275 280 285
Glu Lys Ala Lys Gln Val Leu Lys Ile Ile Ser Ser Tyr Lys His
290 295 300
Thr Thr Ser Ile Phe Asp Asp Phe Ala His Tyr Glu Lys Arg Gln
305 310 315
Arg Arg Arg Arg Trp Cys Ala Arg Asn Gly Arg Val Glu Thr Asn
320 325 330
Asn Glu Gly Glu Pro Val Ser Tyr Met Phe
335 340

<210> 27
<211> 174
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1574624

<400> 27
Met Ala Asp Val Leu Asp Leu His Glu Ala Gly Gly Glu Asp Phe
1 5 10 15
Ala Met Asp Glu Asp Gly Asp Glu Ser Ile His Lys Leu Lys Glu
20 25 30
Lys Ala Lys Lys Arg Lys Gly Arg Gly Phe Gly Ser Glu Glu Gly
35 40 45
Ser Arg Ala Arg Met Arg Glu Asp Tyr Asp Ser Val Glu Gln Asp
50 55 60
Gly Asp Glu Pro Gly Pro Gln Arg Ser Val Glu Gly Trp Ile Leu
65 70 75
Phe Val Thr Gly Val His Glu Glu Ala Thr Glu Glu Asp Ile His
80 85 90
Asp Lys Phe Ala Glu Tyr Gly Glu Ile Lys Asn Ile His Leu Asn
95 100 105
Leu Asp Arg Arg Thr Gly Tyr Leu Lys Gly Tyr Thr Leu Val Glu
110 115 120
Tyr Glu Thr Tyr Lys Glu Ala Gln Ala Ala Met Glu Gly Leu Asn
125 130 135
Gly Gln Asp Leu Met Gly Gln Pro Ile Ser Val Asp Trp Cys Phe
140 145 150

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```
Val Arg Gly Pro Pro Lys Gly Lys Arg Arg Gly Gly Arg Arg Arg
                155                 160                 165
Ser Arg Ser Pro Asp Arg Arg Arg Arg
                170
```

<210> 28
<211> 179
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1577239

<400> 28

```
Met Val Gln Ala Trp Tyr Met Asp Asp Ala Pro Gly Asp Pro Arg
  1               5                  10                  15
Gln Pro His Arg Pro Asp Pro Gly Arg Pro Val Gly Leu Glu Gln
                 20                  25                  30
Leu Arg Arg Leu Gly Val Leu Tyr Trp Lys Leu Asp Ala Asp Lys
                 35                  40                  45
Tyr Glu Asn Asp Pro Glu Leu Glu Lys Ile Arg Arg Glu Arg Asn
                 50                  55                  60
Tyr Ser Trp Met Asp Ile Ile Thr Ile Cys Lys Asp Lys Leu Pro
                 65                  70                  75
Asn Tyr Glu Glu Lys Ile Lys Met Phe Tyr Glu Glu His Leu His
                 80                  85                  90
Leu Asp Asp Glu Ile Arg Tyr Ile Leu Asp Gly Ser Gly Tyr Phe
                 95                 100                 105
Asp Val Arg Asp Lys Glu Asp Gln Trp Ile Arg Ile Phe Met Glu
                110                 115                 120
Lys Gly Asp Met Val Thr Leu Pro Ala Gly Ile Tyr His Arg Phe
                125                 130                 135
Thr Val Asp Glu Lys Asn Tyr Thr Lys Ala Met Arg Leu Phe Val
                140                 145                 150
Gly Glu Pro Val Trp Thr Ala Tyr Asn Arg Pro Ala Asp His Phe
                155                 160                 165
Glu Ala Arg Gly Gln Tyr Val Lys Phe Leu Ala Gln Thr Ala
                170                 175
```

<210> 29
<211> 205
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1598203

<400> 29

```
Met Ala Ala Ala Arg Pro Ser Leu Gly Arg Val Leu Pro Gly Ser
  1               5                  10                  15
Ser Val Leu Phe Leu Cys Asp Met Gln Glu Lys Phe Arg His Asn
                 20                  25                  30
Ile Ala Tyr Phe Pro Gln Ile Val Ser Val Ala Ala Arg Met Leu
                 35                  40                  45
Lys Val Ala Arg Leu Leu Glu Val Pro Val Met Leu Thr Glu Gln
                 50                  55                  60
Tyr Pro Gln Gly Leu Gly Pro Thr Val Pro Glu Leu Gly Thr Glu
                 65                  70                  75
Gly Leu Arg Pro Leu Ala Lys Thr Cys Phe Ser Met Val Pro Ala
                 80                  85                  90
Leu Gln Gln Glu Leu Asp Ser Arg Pro Gln Leu Arg Ser Val Leu
                 95                 100                 105
Leu Cys Gly Ile Glu Ala Gln Ala Cys Ile Leu Asn Thr Thr Leu
                110                 115                 120
Asp Leu Leu Asp Arg Gly Leu Gln Val His Val Val Val Asp Ala
                125                 130                 135
Cys Ser Ser Arg Ser Gln Val Asp Arg Leu Val Ala Leu Ala Arg
                140                 145                 150
Met Arg Gln Ser Gly Ala Phe Leu Ser Thr Ser Glu Gly Leu Ile
                155                 160                 165
Leu Gln Leu Val Gly Asp Ala Val His Pro Gln Phe Lys Glu Ile
                170                 175                 180
Gln Lys Leu Ile Lys Glu Pro Ala Pro Asp Ser Gly Leu Leu Gly
                185                 190                 195
Leu Phe Gln Gly Gln Asn Ser Leu Leu His
                200                 205
```

<210> 30
<211> 419
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1600438

<400> 30

```
Met Asn Lys His Gln Lys Pro Val Leu Thr Gly Gln Arg Phe Lys
  1               5                  10                  15
Thr Arg Lys Arg Asp Glu Lys Glu Lys Phe Glu Pro Thr Val Phe
                 20                  25                  30
Arg Asp Thr Leu Val Gln Gly Leu Asn Glu Ala Gly Asp Asp Leu
                 35                  40                  45
Glu Ala Val Ala Lys Phe Leu Asp Ser Thr Gly Ser Arg Leu Asp
                 50                  55                  60
Tyr Arg Arg Tyr Ala Asp Thr Leu Phe Asp Ile Leu Val Ala Gly
                 65                  70                  75
Ser Met Leu Ala Pro Gly Gly Thr Arg Ile Asp Asp Gly Asp Lys
```

```
                  80                  85                  90
Thr Lys Met Thr Asn His Cys Val Phe Ser Ala Asn Glu Asp His
                  95                 100                 105
Glu Thr Ile Arg Asn Tyr Ala Gln Val Phe Asn Lys Leu Ile Arg
                 110                 115                 120
Arg Tyr Lys Tyr Leu Glu Lys Ala Phe Glu Asp Glu Met Lys Lys
                 125                 130                 135
Leu Leu Leu Phe Leu Lys Ala Phe Ser Glu Thr Glu Gln Thr Lys
                 140                 145                 150
Leu Ala Met Leu Ser Gly Ile Leu Leu Gly Asn Gly Thr Leu Pro
                 155                 160                 165
Ala Thr Ile Leu Thr Ser Leu Phe Thr Asp Ser Leu Val Lys Glu
                 170                 175                 180
Gly Ile Ala Ala Ser Phe Ala Val Lys Leu Phe Lys Ala Trp Met
                 185                 190                 195
Ala Glu Lys Asp Ala Asn Ser Val Thr Ser Ser Leu Arg Lys Ala
                 200                 205                 210
Asn Leu Asp Lys Arg Leu Leu Glu Leu Phe Pro Val Asn Arg Gln
                 215                 220                 225
Ser Val Asp His Phe Ala Lys Tyr Phe Thr Asp Ala Gly Leu Lys
                 230                 235                 240
Glu Leu Ser Asp Phe Leu Arg Val Gln Gln Ser Leu Gly Thr Arg
                 245                 250                 255
Lys Glu Leu Gln Lys Glu Leu Gln Glu Arg Leu Ser Gln Glu Cys
                 260                 265                 270
Pro Ile Lys Glu Val Val Leu Tyr Val Lys Glu Glu Met Lys Arg
                 275                 280                 285
Asn Asp Leu Pro Glu Thr Ala Val Ile Gly Leu Leu Trp Thr Cys
                 290                 295                 300
Ile Met Asn Ala Val Glu Trp Asn Lys Lys Glu Glu Leu Val Ala
                 305                 310                 315
Glu Gln Ala Leu Lys His Leu Lys Gln Tyr Ala Pro Leu Leu Ala
                 320                 325                 330
Val Phe Ser Ser Gln Gly Gln Ser Glu Leu Ile Leu Leu Gln Lys
                 335                 340                 345
Val Gln Glu Tyr Cys Tyr Asp Asn Ile His Phe Met Lys Ala Phe
                 350                 355                 360
Gln Lys Ile Val Val Leu Phe Tyr Lys Ala Asp Val Leu Ser Glu
                 365                 370                 375
Glu Ala Ile Leu Lys Trp Tyr Lys Glu Ala His Val Ala Lys Gly
                 380                 385                 390
Lys Ser Val Phe Leu Asp Gln Met Lys Lys Phe Val Glu Trp Leu
                 395                 400                 405
Gln Asn Ala Glu Glu Glu Ser Glu Ser Glu Gly Glu Glu Asn
                 410                 415
```

<210> 31
<211> 376
<212> PRT
<213> Homo sapiens

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<220>
<221> misc_feature
<223> Incyte ID No: 1600518

<400> 31

```
Met Lys Asp Val Pro Gly Phe Leu Gln Gln Ser Gln Ser Ser Gly
  1               5                  10                  15
Pro Gly Gln Pro Ala Val Trp His Arg Leu Glu Glu Leu Tyr Thr
                 20                  25                  30
Lys Lys Leu Trp His Gln Leu Thr Leu Gln Val Leu Asp Phe Val
                 35                  40                  45
Gln Asp Pro Cys Phe Ala Gln Gly Asp Gly Leu Ile Lys Leu Tyr
                 50                  55                  60
Glu Asn Phe Ile Ser Glu Phe Glu His Arg Val Asn Pro Leu Ser
                 65                  70                  75
Leu Val Glu Ile Ile Leu His Val Val Arg Gln Met Thr Asp Pro
                 80                  85                  90
Asn Val Ala Leu Thr Phe Leu Glu Lys Thr Arg Glu Lys Val Lys
                 95                 100                 105
Ser Ser Asp Glu Ala Val Ile Leu Cys Lys Thr Ala Ile Gly Ala
                110                 115                 120
Leu Lys Leu Asn Ile Gly Asp Leu Gln Val Thr Lys Glu Thr Ile
                125                 130                 135
Glu Asp Val Glu Glu Met Leu Asn Asn Leu Pro Gly Val Thr Ser
                140                 145                 150
Val His Ser Arg Phe Tyr Asp Leu Ser Ser Lys Tyr Tyr Gln Thr
                155                 160                 165
Ile Gly Asn His Ala Ser Tyr Tyr Lys Asp Ala Leu Arg Phe Leu
                170                 175                 180
Gly Cys Val Asp Ile Lys Asp Leu Pro Val Ser Glu Gln Gln Glu
                185                 190                 195
Arg Ala Phe Thr Leu Gly Leu Ala Gly Leu Leu Gly Glu Gly Val
                200                 205                 210
Phe Asn Phe Gly Glu Leu Leu Met His Pro Val Leu Glu Ser Leu
                215                 220                 225
Arg Asn Thr Asp Arg Gln Trp Leu Ile Asp Thr Leu Tyr Ala Phe
                230                 235                 240
Asn Ser Gly Asn Val Glu Arg Phe Gln Thr Leu Lys Thr Ala Trp
                245                 250                 255
Gly Gln Gln Pro Asp Leu Ala Ala Asn Glu Ala Gln Leu Leu Arg
                260                 265                 270
Lys Ile Gln Leu Leu Cys Leu Met Glu Met Thr Phe Thr Arg Pro
                275                 280                 285
Ala Asn His Arg Gln Leu Thr Phe Glu Glu Ile Ala Lys Ser Ala
                290                 295                 300
Lys Ile Thr Val Asn Glu Val Glu Leu Leu Val Met Lys Ala Leu
                305                 310                 315
Ser Val Gly Leu Val Lys Gly Ser Ile Asp Glu Val Asp Lys Arg
                320                 325                 330
Val His Met Thr Trp Val Gln Pro Arg Val Leu Asp Leu Gln Gln
```

335 340 345
Ile Lys Gly Met Lys Asp Arg Leu Glu Phe Trp Cys Thr Asp Val
350 355 360
Lys Ser Met Glu Met Leu Val Glu His Gln Ala His Asp Ile Leu
365 370 375
Thr

<210> 32
<211> 237
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1602473

<400> 32
Met Leu Gly Gly Ser Leu Gly Ser Arg Leu Leu Arg Gly Val Gly
1 5 10 15
Gly Ser His Gly Arg Phe Gly Ala Arg Gly Val Arg Glu Gly Gly
20 25 30
Ala Ala Met Ala Ala Gly Glu Ser Met Ala Gln Arg Met Val Trp
35 40 45
Val Asp Leu Glu Met Thr Gly Leu Asp Ile Glu Lys Asp Gln Ile
50 55 60
Ile Glu Met Ala Cys Leu Ile Thr Asp Ser Asp Leu Asn Ile Leu
65 70 75
Ala Glu Gly Pro Asn Leu Ile Ile Lys Gln Pro Asp Glu Leu Leu
80 85 90
Asp Ser Met Ser Asp Trp Cys Lys Glu His His Gly Lys Ser Gly
95 100 105
Leu Thr Lys Ala Val Lys Glu Ser Thr Ile Thr Leu Gln Gln Ala
110 115 120
Glu Tyr Glu Phe Leu Ser Phe Val Arg Gln Gln Thr Pro Pro Gly
125 130 135
Leu Cys Pro Leu Ala Gly Asn Ser Val His Glu Asp Lys Lys Phe
140 145 150
Leu Asp Lys Tyr Met Pro Gln Phe Met Lys His Leu His Tyr Arg
155 160 165
Ile Ile Asp Val Ser Thr Val Lys Glu Leu Cys Arg Arg Trp Tyr
170 175 180
Pro Glu Glu Tyr Glu Phe Ala Pro Lys Lys Ala Ala Ser His Arg
185 190 195
Ala Leu Asp Asp Ile Ser Glu Ser Ile Lys Glu Leu Gln Phe Tyr
200 205 210
Arg Asn Asn Ile Phe Lys Lys Lys Ile Asp Glu Lys Lys Arg Lys
215 220 225
Ile Ile Glu Asn Gly Glu Asn Glu Lys Thr Val Ser
230 235

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<210> 33
<211> 152
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1605720

<400> 33
Met Glu Ala Val Leu Asn Glu Leu Val Ser Val Glu Asp Leu Leu
1 5 10 15
Lys Phe Glu Lys Lys Phe Gln Ser Glu Lys Ala Ala Gly Ser Val
20 25 30
Ser Lys Ser Thr Gln Phe Glu Tyr Ala Trp Cys Leu Val Arg Ser
35 40 45
Lys Tyr Asn Asp Asp Ile Arg Lys Gly Ile Val Leu Leu Glu Glu
50 55 60
Leu Leu Pro Lys Gly Ser Lys Glu Glu Gln Arg Asp Tyr Val Phe
65 70 75
Tyr Leu Ala Val Gly Asn Tyr Arg Leu Lys Glu Tyr Glu Lys Ala
80 85 90
Leu Lys Tyr Val Arg Gly Leu Leu Gln Thr Glu Pro Gln Asn Asn
95 100 105
Gln Ala Lys Glu Leu Glu Arg Leu Ile Asp Lys Ala Met Lys Lys
110 115 120
Asp Gly Leu Val Gly Met Ala Ile Val Gly Gly Met Ala Leu Gly
125 130 135
Val Ala Gly Leu Ala Gly Leu Ile Gly Leu Ala Val Ser Lys Ser
140 145 150
Lys Phe

<210> 34
<211> 179
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1610501

<400> 34
Met Pro Ser Lys Ser Leu Val Met Glu Tyr Leu Ala His Pro Ser
1 5 10 15
Thr Leu Gly Leu Ala Val Gly Val Ala Cys Gly Met Cys Leu Gly
20 25 30
Trp Ser Leu Arg Val Cys Phe Gly Met Leu Pro Lys Ser Lys Thr
35 40 45
Ser Lys Thr His Thr Asp Thr Glu Ser Glu Ala Ser Ile Leu Gly

```
                  50                  55                  60
Asp Ser Gly Glu Tyr Lys Met Ile Leu Val Val Arg Asn Asp Leu
                  65                  70                  75
Lys Met Gly Lys Gly Lys Val Ala Ala Gln Cys Ser His Ala Ala
                  80                  85                  90
Val Ser Ala Tyr Lys Gln Ile Gln Arg Arg Asn Pro Glu Met Leu
                  95                 100                 105
Lys Gln Trp Glu Tyr Cys Gly Gln Pro Lys Val Val Val Lys Ala
                 110                 115                 120
Pro Asp Glu Glu Thr Leu Ile Ala Leu Leu Ala His Ala Lys Met
                 125                 130                 135
Leu Gly Leu Thr Val Ser Leu Ile Gln Asp Ala Gly Arg Thr Gln
                 140                 145                 150
Ile Ala Pro Gly Ser Gln Thr Val Leu Gly Ile Gly Pro Gly Pro
                 155                 160                 165
Ala Asp Leu Ile Asp Lys Val Thr Gly His Leu Lys Leu Tyr
                 170                 175
```

<210> 35
<211> 196
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1720770

<400> 35

```
Met Ser Glu Gly Asp Ser Val Gly Glu Ser Val His Gly Lys Pro
  1               5                  10                  15
Ser Val Val Tyr Arg Phe Phe Thr Arg Leu Gly Gln Ile Tyr Gln
                  20                  25                  30
Ser Trp Leu Asp Lys Ser Thr Pro Tyr Thr Ala Val Arg Trp Val
                  35                  40                  45
Val Thr Leu Gly Leu Ser Phe Val Tyr Met Ile Arg Val Tyr Leu
                  50                  55                  60
Leu Gln Gly Trp Tyr Ile Val Thr Tyr Ala Leu Gly Ile Tyr His
                  65                  70                  75
Leu Asn Leu Phe Ile Ala Phe Leu Ser Pro Lys Val Asp Pro Ser
                  80                  85                  90
Leu Met Glu Asp Ser Asp Asp Gly Pro Ser Leu Pro Thr Lys Gln
                  95                 100                 105
Asn Glu Glu Phe Arg Pro Phe Ile Arg Arg Leu Pro Glu Phe Lys
                 110                 115                 120
Phe Trp His Ala Ala Thr Lys Gly Ile Leu Val Ala Met Val Cys
                 125                 130                 135
Thr Phe Phe Asp Ala Phe Asn Val Pro Val Phe Trp Pro Ile Leu
                 140                 145                 150
Val Met Tyr Phe Ile Met Leu Phe Cys Ile Thr Met Lys Arg Gln
                 155                 160                 165
```

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```
Ile Lys His Met Ile Lys Tyr Arg Tyr Ile Pro Phe Thr His Gly
                170                 175                 180
Lys Arg Arg Tyr Arg Gly Lys Glu Asp Ala Gly Lys Ala Phe Ala
                185                 190                 195
Ser
```

<210> 36
<211> 612
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1832295

<400> 36

```
Met Ala Ala Ala Gly Arg Leu Pro Ser Ser Trp Ala Leu Phe Ser
  1               5                  10                  15
Pro Leu Leu Ala Gly Leu Ala Leu Leu Gly Val Gly Pro Val Pro
                20                  25                  30
Ala Arg Ala Leu His Asn Val Thr Ala Glu Leu Phe Gly Ala Glu
                35                  40                  45
Ala Trp Gly Thr Leu Ala Ala Phe Gly Asp Leu Asn Ser Asp Lys
                50                  55                  60
Gln Thr Asp Leu Phe Val Leu Arg Glu Arg Asn Asp Leu Ile Val
                65                  70                  75
Phe Leu Ala Asp Gln Asn Ala Pro Tyr Phe Lys Pro Lys Val Lys
                80                  85                  90
Val Ser Phe Lys Asn His Ser Ala Leu Ile Thr Ser Val Val Pro
                95                 100                 105
Gly Asp Tyr Asp Gly Asp Ser Gln Met Asp Val Leu Leu Thr Tyr
               110                 115                 120
Leu Pro Lys Asn Tyr Ala Lys Ser Glu Leu Gly Ala Val Ile Phe
               125                 130                 135
Trp Gly Gln Asn Gln Thr Leu Asp Pro Asn Asn Met Thr Ile Leu
               140                 145                 150
Asn Arg Thr Phe Gln Asp Glu Pro Leu Ile Met Asp Phe Asn Gly
               155                 160                 165
Asp Leu Ile Pro Asp Ile Phe Gly Ile Thr Asn Glu Ser Asn Gln
               170                 175                 180
Pro Gln Ile Leu Leu Gly Gly Asn Leu Ser Trp His Pro Ala Leu
               185                 190                 195
Thr Thr Thr Ser Lys Met Arg Ile Pro His Ser His Ala Phe Ile
               200                 205                 210
Asp Leu Thr Glu Asp Phe Thr Ala Asp Leu Phe Leu Thr Thr Leu
               215                 220                 225
Asn Ala Thr Thr Ser Thr Phe Gln Phe Glu Ile Trp Glu Asn Leu
               230                 235                 240
Asp Gly Asn Phe Ser Val Ser Thr Ile Leu Glu Lys Pro Gln Asn
```

```
                245                 250                 255
Met Met Val Val Gly Gln Ser Ala Phe Ala Asp Phe Asp Gly Asp
                260                 265                 270
Gly His Met Asp His Leu Leu Pro Gly Cys Glu Asp Lys Asn Cys
                275                 280                 285
Gln Lys Ser Thr Ile Tyr Leu Val Arg Ser Gly Met Lys Gln Trp
                290                 295                 300
Val Pro Val Leu Gln Asp Phe Ser Asn Lys Gly Thr Leu Trp Gly
                305                 310                 315
Phe Val Pro Phe Val Asp Glu Gln Gln Pro Thr Glu Ile Pro Ile
                320                 325                 330
Pro Ile Thr Leu His Ile Gly Asp Tyr Asn Met Asp Gly Tyr Pro
                335                 340                 345
Asp Ala Leu Val Ile Leu Lys Asn Thr Ser Gly Ser Asn Gln Gln
                350                 355                 360
Ala Phe Leu Leu Glu Asn Val Pro Cys Asn Asn Ala Ser Cys Glu
                365                 370                 375
Glu Ala Arg Arg Met Phe Lys Val Tyr Trp Glu Leu Thr Asp Leu
                380                 385                 390
Asn Gln Ile Lys Asp Ala Met Val Ala Thr Phe Phe Asp Ile Tyr
                395                 400                 405
Glu Asp Gly Ile Leu Asp Ile Val Val Leu Ser Lys Gly Tyr Thr
                410                 415                 420
Lys Asn Asp Phe Ala Ile His Thr Leu Lys Asn Asn Phe Glu Ala
                425                 430                 435
Asp Ala Tyr Phe Val Lys Val Ile Val Leu Ser Gly Leu Cys Ser
                440                 445                 450
Asn Asp Cys Pro Arg Lys Ile Thr Pro Phe Gly Val Asn Gln Pro
                455                 460                 465
Gly Pro Tyr Ile Met Tyr Thr Thr Leu Asp Ala Asn Gly Tyr Leu
                470                 475                 480
Lys Asn Gly Ser Ala Gly Gln Leu Ser Gln Ser Ala His Leu Ala
                485                 490                 495
Leu Gln Leu Pro Tyr Asn Val Leu Gly Leu Gly Arg Ser Ala Asn
                500                 505                 510
Phe Leu Asp His Leu Tyr Val Gly Ile Pro Arg Pro Ser Gly Glu
                515                 520                 525
Lys Ser Ile Arg Lys Gln Glu Trp Thr Ala Ile Ile Pro Asn Ser
                530                 535                 540
Gln Leu Ile Val Ile Pro Tyr Pro His Asn Val Pro Arg Ser Trp
                545                 550                 555
Ser Ala Lys Leu Tyr Leu Thr Pro Ser Asn Ile Val Leu Leu Thr
                560                 565                 570
Ala Ile Ala Leu Ile Gly Val Cys Val Phe Ile Leu Ala Ile Ile
                575                 580                 585
Gly Ile Leu His Trp Gln Glu Lys Lys Ala Asp Asp Arg Glu Lys
                590                 595                 600
Arg Gln Glu Ala His Arg Phe His Phe Asp Ala Met
                605                 610
```

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<210> 37
<211> 101
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1990522

<400> 37
Met Ala Ala Pro Leu Ser Val Glu Val Glu Phe Gly Gly Gly Ala
1 5 10 15
Glu Leu Leu Phe Asp Gly Ile Lys Lys His Arg Val Thr Leu Pro
20 25 30
Gly Gln Glu Glu Pro Trp Asp Ile Arg Asn Leu Leu Ile Trp Ile
35 40 45
Lys Lys Asn Leu Leu Lys Glu Arg Pro Glu Leu Phe Ile Gln Gly
50 55 60
Asp Ser Val Arg Pro Gly Ile Leu Val Leu Ile Asn Asp Ala Asp
65 70 75
Trp Glu Leu Leu Gly Glu Leu Asp Tyr Gln Leu Gln Asp Gln Asp
80 85 90
Ser Val Leu Phe Ile Ser Thr Leu His Gly Gly
95 100

<210> 38
<211> 132
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2098087

<400> 38
Met Ala Lys Asp Ile Leu Gly Glu Ala Gly Leu His Phe Asp Glu
1 5 10 15
Leu Asn Lys Leu Arg Val Leu Asp Pro Glu Val Thr Gln Gln Thr
20 25 30
Ile Glu Leu Lys Glu Glu Cys Lys Asp Phe Val Asp Lys Ile Gly
35 40 45
Gln Phe Gln Lys Ile Val Gly Gly Leu Ile Glu Leu Val Asp Gln
50 55 60
Leu Ala Lys Glu Ala Glu Asn Glu Lys Met Lys Ala Ile Gly Ala
65 70 75
Arg Asn Leu Leu Lys Ser Ile Ala Lys Gln Arg Glu Ala Gln Gln
80 85 90
Gln Gln Leu Gln Ala Leu Ile Ala Glu Lys Lys Met Gln Leu Glu
95 100 105
Arg Tyr Arg Val Glu Tyr Glu Ala Leu Cys Lys Val Glu Ala Glu

110 115 120
Gln Asn Glu Phe Ile Asp Gln Phe Ile Phe Gln Lys
125 130

<210> 39
<211> 188
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2112230

<400> 39
Met Ala Asn Ser Gly Cys Lys Asp Val Thr Gly Pro Asp Glu Glu
1 5 10 15
Ser Phe Leu Tyr Phe Ala Tyr Gly Ser Asn Leu Leu Thr Glu Arg
20 25 30
Ile His Leu Arg Asn Pro Ser Ala Ala Phe Phe Cys Val Ala Arg
35 40 45
Leu Gln Asp Phe Lys Leu Asp Phe Gly Asn Ser Gln Gly Lys Thr
50 55 60
Ser Gln Thr Trp His Gly Gly Ile Ala Thr Ile Phe Gln Ser Pro
65 70 75
Gly Asp Glu Val Trp Gly Val Val Trp Lys Met Asn Lys Ser Asn
80 85 90
Leu Asn Ser Leu Asp Glu Gln Glu Gly Val Lys Ser Gly Met Tyr
95 100 105
Val Val Ile Glu Val Lys Val Ala Thr Gln Glu Gly Lys Glu Ile
110 115 120
Thr Cys Arg Ser Tyr Leu Met Thr Asn Tyr Glu Ser Ala Pro Pro
125 130 135
Ser Pro Gln Tyr Lys Lys Ile Ile Cys Met Gly Ala Lys Glu Asn
140 145 150
Gly Leu Pro Leu Glu Tyr Gln Glu Lys Leu Lys Ala Ile Glu Pro
155 160 165
Asn Asp Tyr Thr Gly Lys Val Ser Glu Glu Ile Glu Asp Ile Ile
170 175 180
Lys Lys Gly Glu Thr Gln Thr Leu
185

<210> 40
<211> 86
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2117050

<400> 40
Met Thr Asp Arg Tyr Thr Ile His Ser Gln Leu Glu His Leu Gln
1 5 10 15
Ser Lys Tyr Ile Gly Thr Gly His Ala Asp Thr Thr Lys Trp Glu
20 25 30
Trp Leu Val Asn Gln His Arg Asp Ser Tyr Cys Ser Tyr Met Gly
35 40 45
His Phe Asp Leu Leu Asn Tyr Phe Ala Ile Ala Glu Asn Glu Ser
50 55 60
Lys Ala Arg Val Arg Phe Asn Leu Met Glu Lys Met Leu Gln Pro
65 70 75
Cys Gly Pro Pro Ala Asp Lys Pro Glu Glu Asn
80 85

<210> 41
<211> 222
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2184712

<400> 41
Met Ser Gly Leu Gly Arg Leu Phe Gly Lys Gly Lys Lys Glu Lys
1 5 10 15
Gly Pro Thr Pro Glu Glu Ala Ile Gln Lys Leu Lys Glu Thr Glu
20 25 30
Lys Ile Leu Ile Lys Lys Gln Glu Phe Leu Glu Gln Lys Ile Gln
35 40 45
Gln Glu Leu Gln Thr Ala Lys Lys Tyr Gly Thr Lys Asn Lys Arg
50 55 60
Ala Ala Leu Gln Ala Leu Arg Arg Lys Lys Arg Phe Glu Gln Gln
65 70 75
Leu Ala Gln Thr Asp Gly Thr Leu Ser Thr Leu Glu Phe Gln Arg
80 85 90
Glu Ala Ile Glu Asn Ala Thr Thr Asn Ala Glu Val Leu Arg Thr
95 100 105
Met Glu Leu Ala Ala Gln Ser Met Lys Lys Ala Tyr Gln Asp Met
110 115 120
Asp Ile Asp Lys Val Asp Glu Leu Met Thr Asp Ile Thr Glu Gln
125 130 135
Gln Glu Val Ala Gln Gln Ile Ser Asp Ala Ile Ser Arg Pro Met
140 145 150
Gly Phe Gly Asp Asp Val Asp Glu Asp Glu Leu Leu Glu Glu Leu
155 160 165
Glu Glu Leu Glu Gln Glu Glu Leu Ala Gln Glu Leu Leu Asn Val
170 175 180
Gly Asp Lys Glu Glu Glu Pro Ser Val Lys Leu Pro Ser Val Pro
185 190 195

```
Ser Thr His Leu Pro Ala Gly Pro Ala Pro Lys Val Asp Glu Asp
                200                 205                 210
Glu Glu Ala Leu Lys Gln Leu Ala Glu Trp Val Ser
                215                 220
```

<210> 42
<211> 300
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2290475

<400> 42

```
Met Ser Gly Ser Asn Gly Ser Lys Glu Asn Ser His Asn Lys Ala
  1               5                  10                  15
Arg Thr Ser Pro Tyr Pro Gly Ser Lys Val Glu Arg Ser Gln Val
                20                  25                  30
Pro Asn Glu Lys Val Gly Trp Leu Val Glu Trp Gln Asp Tyr Lys
                35                  40                  45
Pro Val Glu Tyr Thr Ala Val Ser Val Leu Ala Gly Pro Arg Trp
                50                  55                  60
Ala Asp Pro Gln Ile Ser Glu Ser Asn Phe Ser Pro Lys Phe Asn
                65                  70                  75
Glu Lys Asp Gly His Val Glu Arg Lys Ser Lys Asn Gly Leu Tyr
                80                  85                  90
Glu Ile Glu Asn Gly Arg Pro Arg Asn Pro Ala Gly Arg Thr Gly
                95                 100                 105
Leu Val Gly Arg Gly Leu Leu Gly Arg Trp Gly Pro Asn His Ala
               110                 115                 120
Ala Asp Pro Ile Ile Thr Arg Trp Lys Arg Asp Ser Ser Gly Asn
               125                 130                 135
Lys Ile Met His Pro Val Ser Gly Lys His Ile Leu Gln Phe Val
               140                 145                 150
Ala Ile Lys Arg Lys Asp Cys Gly Glu Trp Ala Ile Pro Gly Gly
               155                 160                 165
Met Val Asp Pro Gly Glu Lys Ile Ser Ala Thr Leu Lys Arg Glu
               170                 175                 180
Phe Gly Glu Glu Ala Leu Asn Ser Leu Gln Lys Thr Ser Ala Glu
               185                 190                 195
Lys Arg Glu Ile Glu Glu Lys Leu His Lys Leu Phe Ser Gln Asp
               200                 205                 210
His Leu Val Ile Tyr Lys Gly Tyr Val Asp Asp Pro Arg Asn Thr
               215                 220                 225
Asp Asn Ala Trp Met Glu Thr Glu Ala Val Asn Tyr His Asp Glu
               230                 235                 240
Thr Gly Glu Ile Met Asp Asn Leu Met Leu Glu Ala Gly Asp Asp
               245                 250                 255
Ala Gly Lys Val Lys Trp Val Asp Ile Asn Asp Lys Leu Lys Leu
```

```
                260                 265                 270
Tyr Ala Ser His Ser Gln Phe Ile Lys Leu Val Ala Glu Lys Arg
                275                 280                 285
Asp Ala His Trp Ser Glu Asp Ser Glu Ala Asp Cys His Ala Leu
                290                 295                 300
```

<210> 43
<211> 112
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2353452

<400> 43

```
Met Glu Ala Tyr Glu Gln Val Gln Lys Gly Pro Leu Lys Leu Lys
  1               5                  10                  15
Gly Val Ala Glu Leu Gly Val Thr Lys Arg Lys Lys Lys Lys Lys
                 20                  25                  30
Asp Lys Asp Lys Ala Lys Leu Leu Glu Ala Met Gly Thr Ser Lys
                 35                  40                  45
Lys Asn Glu Glu Glu Lys Arg Arg Gly Leu Asp Lys Arg Thr Pro
                 50                  55                  60
Ala Gln Ala Ala Phe Glu Lys Met Gln Glu Lys Arg Gln Met Glu
                 65                  70                  75
Arg Ile Leu Lys Lys Ala Ser Lys Thr His Lys Gln Arg Val Glu
                 80                  85                  90
Asp Phe Asn Arg His Leu Asp Thr Leu Thr Glu His Tyr Asp Ile
                 95                 100                 105
Pro Lys Val Ser Trp Thr Lys
                110
```

<210> 44
<211> 251
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2469611

<400> 44

```
Met Ser Asp Ile Gly Asp Trp Phe Arg Ser Ile Pro Ala Ile Thr
  1               5                  10                  15
Arg Tyr Trp Phe Ala Ala Thr Val Ala Val Pro Leu Val Gly Lys
                 20                  25                  30
Leu Gly Leu Ile Ser Pro Ala Tyr Leu Phe Leu Trp Pro Glu Ala
                 35                  40                  45
```

Phe Leu Tyr Arg Phe Gln Ile Trp Arg Pro Ile Thr Ala Thr Phe
50 55 60
Tyr Phe Pro Val Gly Pro Gly Thr Gly Phe Leu Tyr Leu Val Asn
65 70 75
Leu Tyr Phe Leu Tyr Gln Tyr Ser Thr Arg Leu Glu Thr Gly Ala
80 85 90
Phe Asp Gly Arg Pro Ala Asp Tyr Leu Phe Met Leu Leu Phe Asn
95 100 105
Trp Ile Cys Ile Val Ile Thr Gly Leu Ala Met Asp Met Gln Leu
110 115 120
Leu Met Ile Pro Leu Ile Met Ser Val Leu Tyr Val Trp Ala Gln
125 130 135
Leu Asn Arg Asp Met Ile Val Ser Phe Trp Phe Gly Thr Arg Phe
140 145 150
Lys Ala Cys Tyr Leu Pro Trp Val Ile Leu Gly Phe Asn Tyr Ile
155 160 165
Ile Gly Gly Ser Val Ile Asn Glu Leu Ile Gly Asn Leu Val Gly
170 175 180
His Leu Tyr Phe Phe Leu Met Phe Arg Tyr Pro Met Asp Leu Gly
185 190 195
Gly Arg Asn Phe Leu Ser Thr Pro Gln Phe Leu Tyr Arg Trp Leu
200 205 210
Pro Ser Arg Arg Gly Gly Val Ser Gly Phe Gly Val Pro Pro Ala
215 220 225
Ser Met Arg Arg Ala Ala Asp Gln Asn Gly Gly Gly Gly Arg His
230 235 240
Asn Trp Gly Gln Gly Phe Arg Leu Gly Asp Gln
245 250

<210> 45
<211> 811
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2515476

<400> 45
Met Pro Leu Ser Ser Pro Asn Ala Ala Ala Thr Ala Ser Asp Met
1 5 10 15
Asp Lys Asn Ser Gly Ser Asn Ser Ser Ser Ala Ser Ser Gly Ser
20 25 30
Ser Lys Gly Gln Gln Pro Pro Arg Ser Ala Ser Ala Gly Pro Ala
35 40 45
Gly Glu Ser Lys Pro Lys Ser Asp Gly Lys Asn Ser Ser Gly Ser
50 55 60
Lys Arg Tyr Asn Arg Lys Arg Glu Leu Ser Tyr Pro Lys Asn Glu
65 70 75
Ser Phe Asn Asn Gln Ser Arg Arg Ser Ser Ser Gln Lys Ser Lys

```
                 80                  85                  90
Thr Phe Asn Lys Met Pro Pro Gln Arg Gly Gly Gly Ser Ser Lys
                 95                 100                 105
Leu Phe Ser Ser Ser Phe Asn Gly Gly Arg Arg Asp Glu Val Ala
                110                 115                 120
Glu Ala Gln Arg Ala Glu Phe Ser Pro Ala Gln Phe Ser Gly Pro
                125                 130                 135
Lys Lys Ile Asn Leu Asn His Leu Leu Asn Phe Thr Phe Glu Pro
                140                 145                 150
Arg Gly Gln Thr Gly His Phe Glu Gly Ser Gly His Gly Ser Trp
                155                 160                 165
Gly Lys Arg Asn Lys Trp Gly His Lys Pro Phe Asn Lys Glu Leu
                170                 175                 180
Phe Leu Gln Ala Asn Cys Gln Phe Val Val Ser Glu Asp Gln Asp
                185                 190                 195
Tyr Thr Ala His Phe Ala Asp Pro Asp Thr Leu Val Asn Trp Asp
                200                 205                 210
Phe Val Glu Gln Val Arg Ile Cys Ser His Glu Val Pro Ser Cys
                215                 220                 225
Pro Ile Cys Leu Tyr Pro Pro Thr Ala Ala Lys Ile Thr Arg Cys
                230                 235                 240
Gly His Ile Phe Cys Trp Ala Cys Ile Leu His Tyr Leu Ser Leu
                245                 250                 255
Ser Glu Lys Thr Trp Ser Lys Cys Pro Ile Cys Tyr Ser Ser Val
                260                 265                 270
His Lys Lys Asp Leu Lys Ser Val Val Ala Thr Glu Ser His Gln
                275                 280                 285
Tyr Val Val Gly Asp Thr Ile Thr Met Gln Leu Met Lys Arg Glu
                290                 295                 300
Lys Gly Val Leu Val Ala Leu Pro Lys Ser Lys Trp Met Asn Val
                305                 310                 315
Asp His Pro Ile His Leu Gly Asp Glu Gln His Ser Gln Tyr Ser
                320                 325                 330
Lys Leu Leu Leu Ala Ser Lys Glu Gln Val Leu His Arg Val Val
                335                 340                 345
Leu Glu Glu Lys Val Ala Leu Glu Gln Gln Leu Ala Glu Glu Lys
                350                 355                 360
His Thr Pro Glu Ser Cys Phe Ile Glu Ala Ala Ile Gln Glu Leu
                365                 370                 375
Lys Thr Arg Glu Glu Ala Leu Ser Gly Leu Ala Gly Ser Arg Arg
                380                 385                 390
Glu Val Thr Gly Val Val Ala Ala Leu Glu Gln Leu Val Leu Met
                395                 400                 405
Ala Pro Leu Ala Lys Glu Ser Val Phe Gln Pro Arg Lys Gly Val
                410                 415                 420
Leu Glu Tyr Leu Ser Ala Phe Asp Glu Glu Thr Thr Glu Val Cys
                425                 430                 435
Ser Leu Asp Thr Pro Ser Arg Pro Leu Ala Leu Pro Leu Val Glu
                440                 445                 450
Glu Glu Glu Ala Val Ser Glu Pro Glu Pro Glu Gly Leu Pro Glu
```

```
                455                 460                 465
Ala Cys Asp Asp Leu Glu Leu Ala Asp Asp Asn Leu Lys Glu Gly
                470                 475                 480
Thr Ile Cys Thr Glu Ser Ser Gln Gln Glu Pro Ile Thr Lys Ser
                485                 490                 495
Gly Phe Thr Arg Leu Ser Ser Ser Pro Cys Tyr Tyr Phe Tyr Gln
                500                 505                 510
Ala Glu Asp Gly Gln His Met Phe Leu His Pro Val Asn Val Arg
                515                 520                 525
Cys Leu Val Arg Glu Tyr Gly Ser Leu Glu Arg Ser Pro Glu Lys
                530                 535                 540
Ile Ser Ala Thr Val Val Glu Ile Ala Gly Tyr Ser Met Ser Glu
                545                 550                 555
Asp Val Arg Gln Arg His Arg Tyr Leu Ser His Leu Pro Leu Thr
                560                 565                 570
Cys Glu Phe Ser Ile Cys Glu Leu Ala Leu Gln Pro Pro Val Val
                575                 580                 585
Ser Lys Glu Thr Leu Glu Met Phe Ser Asp Asp Ile Glu Lys Arg
                590                 595                 600
Lys Arg Gln Arg Gln Lys Lys Ala Arg Glu Glu Arg Arg Arg Glu
                605                 610                 615
Arg Arg Ile Glu Ile Glu Glu Asn Lys Lys Gln Gly Lys Tyr Pro
                620                 625                 630
Glu Val His Ile Pro Leu Glu Asn Leu Gln Gln Phe Pro Ala Phe
                635                 640                 645
Asn Ser Tyr Thr Cys Ser Ser Asp Ser Ala Leu Gly Pro Thr Ser
                650                 655                 660
Thr Glu Gly His Gly Ala Leu Ser Ile Ser Pro Leu Ser Arg Ser
                665                 670                 675
Pro Gly Ser His Ala Asp Phe Leu Leu Thr Pro Leu Ser Pro Thr
                680                 685                 690
Ala Ser Gln Gly Ser Pro Ser Phe Cys Val Gly Ser Leu Glu Glu
                695                 700                 705
Asp Ser Pro Phe Pro Ser Phe Ala Gln Met Leu Arg Val Gly Lys
                710                 715                 720
Ala Lys Ala Asp Val Trp Pro Lys Thr Ala Pro Lys Lys Asp Glu
                725                 730                 735
Asn Ser Leu Val Pro Pro Ala Pro Val Asp Ser Asp Gly Glu Ser
                740                 745                 750
Asp Asn Ser Asp Arg Val Pro Val Pro Ser Phe Gln Asn Ser Phe
                755                 760                 765
Ser Gln Ala Ile Glu Ala Ala Phe Met Lys Leu Asp Thr Pro Ala
                770                 775                 780
Thr Ser Asp Pro Leu Ser Glu Glu Lys Gly Gly Lys Lys Arg Lys
                785                 790                 795
Lys Gln Lys Gln Lys Leu Leu Phe Ser Thr Ser Val Val His Thr
                800                 805                 810
Lys
```

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<210> 46
<211> 352
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2754573

<400> 46

```
Met His Val Val Ala Pro Ala Ser Leu Arg Leu Gly Thr Gly Thr
  1               5                  10                  15
Asn Leu Pro Pro Ser Pro Thr Cys Leu Thr Lys Leu Ala Leu Pro
             20                  25                  30
Pro Ala Ala Glu Pro Ser Leu Leu Ala Met Ser Gln Ser Arg His
             35                  40                  45
Arg Ala Glu Ala Pro Pro Leu Glu Arg Glu Asp Ser Gly Thr Phe
             50                  55                  60
Ser Leu Gly Lys Met Ile Thr Ala Lys Pro Gly Lys Thr Pro Ile
             65                  70                  75
Gln Val Leu His Glu Tyr Gly Met Lys Thr Lys Asn Ile Pro Val
             80                  85                  90
Tyr Glu Cys Glu Arg Ser Asp Val Gln Ile His Val Pro Thr Phe
             95                 100                 105
Thr Phe Arg Val Thr Val Gly Asp Ile Thr Cys Thr Gly Glu Gly
            110                 115                 120
Thr Ser Lys Lys Leu Ala Lys His Arg Ala Ala Glu Ala Ala Ile
            125                 130                 135
Asn Ile Leu Lys Ala Asn Ala Ser Ile Cys Phe Ala Val Pro Asp
            140                 145                 150
Pro Leu Met Pro Asp Pro Ser Lys Gln Pro Lys Asn Gln Leu Asn
            155                 160                 165
Pro Ile Gly Ser Leu Gln Glu Leu Ala Ile His His Gly Trp Arg
            170                 175                 180
Leu Pro Glu Tyr Thr Leu Ser Gln Glu Gly Gly Pro Ala His Lys
            185                 190                 195
Arg Glu Tyr Thr Thr Ile Cys Arg Leu Glu Ser Phe Met Glu Thr
            200                 205                 210
Gly Lys Gly Ala Ser Lys Lys Gln Ala Lys Arg Asn Ala Ala Glu
            215                 220                 225
Lys Phe Leu Ala Lys Phe Ser Asn Ile Ser Pro Glu Asn His Ile
            230                 235                 240
Ser Leu Thr Asn Val Val Gly His Ser Leu Gly Cys Thr Trp His
            245                 250                 255
Ser Leu Arg Asn Ser Pro Gly Glu Lys Ile Asn Leu Leu Lys Arg
            260                 265                 270
Ser Leu Leu Ser Ile Pro Asn Thr Asp Tyr Ile Gln Leu Leu Ser
            275                 280                 285
Glu Ile Ala Lys Glu Gln Gly Phe Asn Ile Thr Tyr Leu Asp Ile
            290                 295                 300
```

```
Asp Glu Leu Ser Ala Asn Gly Gln Tyr Gln Cys Leu Ala Glu Leu
                305                 310                 315
Ser Thr Ser Pro Ile Thr Val Cys His Gly Ser Gly Ile Ser Cys
                320                 325                 330
Gly Asn Ala Gln Ser Asp Ala Ala His Asn Ala Leu Gln Tyr Leu
                335                 340                 345
Lys Ile Ile Ala Glu Arg Lys
                350
```

<210> 47
<211> 432
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2926777

<400> 47

```
Met Ile Ser Ala Ala Gln Leu Leu Asp Glu Leu Met Gly Arg Asp
  1               5                  10                  15
Arg Asn Leu Ala Pro Asp Glu Lys Arg Thr Asn Val Arg Trp Asp
                 20                  25                  30
His Glu Ser Val Cys Lys Tyr Tyr Leu Cys Gly Phe Cys Pro Ala
                 35                  40                  45
Glu Leu Phe Thr Asn Thr Arg Ser Asp Leu Gly Pro Cys Glu Lys
                 50                  55                  60
Ile His Asp Glu Asn Leu Arg Lys Gln Tyr Glu Lys Ser Ser Arg
                 65                  70                  75
Phe Met Lys Val Gly Tyr Glu Arg Asp Phe Leu Arg Tyr Leu Gln
                 80                  85                  90
Ser Leu Leu Ala Glu Val Glu Arg Arg Ile Arg Arg Gly His Ala
                 95                 100                 105
Arg Leu Ala Leu Ser Gln Asn Gln Gln Ser Ser Gly Ala Ala Gly
                110                 115                 120
Pro Thr Gly Lys Asn Glu Glu Lys Ile Gln Val Leu Thr Asp Lys
                125                 130                 135
Ile Asp Val Leu Leu Gln Gln Ile Glu Glu Leu Gly Ser Glu Gly
                140                 145                 150
Lys Val Glu Glu Ala Gln Gly Met Met Lys Leu Val Glu Gln Leu
                155                 160                 165
Lys Glu Glu Arg Glu Leu Leu Arg Ser Thr Thr Ser Thr Ile Glu
                170                 175                 180
Ser Phe Ala Ala Gln Glu Lys Gln Met Glu Val Cys Glu Val Cys
                185                 190                 195
Gly Ala Phe Leu Ile Val Gly Asp Ala Gln Ser Arg Val Asp Asp
                200                 205                 210
His Leu Met Gly Lys Gln His Met Gly Tyr Ala Lys Ile Lys Ala
                215                 220                 225
Thr Val Glu Glu Leu Lys Glu Lys Leu Arg Lys Arg Thr Glu Glu
```

```
                230                 235                 240
Pro Asp Arg Asp Glu Arg Leu Lys Lys Glu Lys Gln Glu Arg Glu
                245                 250                 255
Glu Arg Glu Lys Glu Arg Glu Arg Glu Arg Glu Glu Arg Glu Arg
                260                 265                 270
Lys Arg Arg Arg Glu Glu Glu Glu Arg Glu Lys Glu Arg Ala Arg
                275                 280                 285
Asp Arg Glu Arg Arg Lys Arg Ser Arg Ser Arg Ser Arg His Ser
                290                 295                 300
Ser Arg Thr Ser Asp Arg Arg Cys Ser Arg Ser Arg Asp His Lys
                305                 310                 315
Arg Ser Arg Ser Arg Glu Arg Arg Arg Thr Arg Ser Arg Asp Arg
                320                 325                 330
Arg Arg Ser Arg Ser His Asp Arg Ser Glu Arg Lys His Arg Ser
                335                 340                 345
Arg Ser Arg Asp Arg Arg Arg Ser Lys Ser Arg Asp Arg Lys Ser
                350                 355                 360
Tyr Lys His Arg Ser Lys Ser Arg Asp Arg Glu Gln Asp Arg Lys
                365                 370                 375
Ser Lys Glu Lys Glu Lys Arg Gly Ser Asp Asp Lys Lys Ser Ser
                380                 385                 390
Val Lys Ser Gly Ser Arg Glu Lys Gln Ser Glu Asp Thr Asn Thr
                395                 400                 405
Glu Ser Lys Glu Ser Asp Thr Lys Asn Glu Val Asn Gly Thr Ser
                410                 415                 420
Glu Asp Ile Lys Ser Glu Gly Asp Thr Gln Ser Asn
                425                 430
```

<210> 48
<211> 180
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 3217567

<400> 48

```
Met Ala Ala Ala Glu Glu Glu Asp Gly Gly Pro Glu Gly Pro Asn
  1               5                  10                  15
Arg Glu Arg Gly Gly Ala Gly Ala Thr Phe Glu Cys Asn Ile Cys
                20                  25                  30
Leu Glu Thr Ala Arg Glu Ala Val Val Ser Val Cys Gly His Leu
                35                  40                  45
Tyr Cys Trp Pro Cys Leu His Gln Trp Leu Glu Thr Arg Pro Glu
                50                  55                  60
Arg Gln Glu Cys Pro Val Cys Lys Ala Gly Ile Ser Arg Glu Lys
                65                  70                  75
Val Val Pro Leu Tyr Gly Arg Gly Ser Gln Lys Pro Gln Asp Pro
                80                  85                  90
```

```
Arg Leu Lys Thr Pro Pro Arg Pro Gln Gly Gln Arg Pro Ala Pro
                 95                  100                 105
Glu Ser Arg Gly Gly Phe Gln Pro Phe Gly Asp Thr Gly Gly Phe
                110                 115                 120
His Phe Ser Phe Gly Val Gly Ala Phe Pro Phe Gly Phe Phe Thr
                125                 130                 135
Thr Val Phe Asn Ala His Glu Pro Phe Arg Arg Gly Thr Gly Val
                140                 145                 150
Asp Leu Gly Gln Gly His Pro Ala Ser Ser Trp Gln Asp Ser Leu
                155                 160                 165
Phe Leu Phe Leu Ala Ile Phe Phe Phe Phe Trp Leu Leu Ser Ile
                170                 175                 180
```

<210> 49
<211> 137
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 3339274

<400> 49

```
Met Ser Ser Leu Ile Arg Arg Val Ile Ser Thr Ala Lys Ala Pro
  1               5                  10                  15
Gly Ala Ile Gly Pro Tyr Ser Gln Ala Val Leu Val Asp Arg Thr
                 20                  25                  30
Ile Tyr Ile Ser Gly Gln Ile Gly Met Asp Pro Ser Ser Gly Gln
                 35                  40                  45
Leu Val Ser Gly Gly Val Ala Glu Glu Ala Lys Gln Ala Leu Lys
                 50                  55                  60
Asn Met Gly Glu Ile Leu Lys Ala Ala Gly Cys Asp Phe Thr Asn
                 65                  70                  75
Val Val Lys Thr Thr Val Leu Leu Ala Asp Ile Asn Asp Phe Asn
                 80                  85                  90
Thr Val Asn Glu Ile Tyr Lys Gln Tyr Phe Lys Ser Asn Phe Pro
                 95                 100                 105
Ala Arg Ala Ala Tyr Gln Val Ala Ala Leu Pro Lys Gly Ser Arg
                110                 115                 120
Ile Glu Ile Glu Ala Val Ala Ile Gln Gly Pro Leu Thr Thr Ala
                125                 130                 135
Ser Leu
```

<210> 50
<211> 1600
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<223> Incyte ID No: 000133

<400> 50
cccgggggcc cgggcggcag ggcaagcagc gcggcctcgg cctatgcgac cggtggcgcc 60
ggcgcggctt ctgcctggag aggattcaag atgaccaacg aagaacctct tcccaagaag 120
gttcgattga gtgaaacaga cttcaaagtt atggcaagag atgagttaat tctaagatgg 180
aaacaatatg aagcatatgt acaagctttg gagggcaagt acacagatct taactctaat 240
gatgtaactg gcctaagaga gtctgaagaa aaactaaagc aacaacagca ggagtctgca 300
cgcagggaaa acatccttgt aatgcgacta gcaaccaagg aacaagagat gcaagagtgt 360
actactcaaa tccagtacct caagcaagtc cagcagccga gcgttgccca actgagatca 420
acaatggtag acccagcgat caacttgttt ttcctaaaaa tgaaaggtga actggaacag 480
actaaagaca aactggaaca agcccaaaat gaactgagtg cctggaagtt tacgcctgat 540
aggtaaacaa atcatactcc ccagtcaaga cttccctgac agtcccacta cgagaaagct 600
gtggtgggac agccaagtac tcgtttccac accaagactc agacttttg agccaaaaaa 660
aagccacatt cttacactgt ccagcttgta atggttaatg taaaacttac cagatgaacc 720
ttgtgtttca gctttttct tttccccttc cccttgcttc agaggcctga tggcgtcgga 780
ctattccgaa gaagtggcca cctccgaaaa attccccttc tagaacatgt agacacttga 840
gaaatgtttc tgtttgaaga aaatagaggg agaaacagaa gtcttaagtc tgtggcacac 900
tgtgtcttca gacagtttga aggaatgaaa acctagagat tttaaatcat gaattgaaca 960
tgtaaaattc cagtaaaatg taaaaacgga atatgcatcg ctcttaacct tgagcatagt 1020
gacttagaga cactgtgtat cagttttgcc aataagactg tggacttcat gattgttgtt 1080
gaacttctgg gtcaaaactc aaatgaggtg aattttgcct ttaaagggtt tatttgctga 1140
gaaccaactt tcaatagtca tgagagaatc aaataataga tgtccgtaca agtagcgcat 1200
atatttaacc atttagtttg gggctctata ttacttgctt gagccttaat caatgtggtt 1260
ttattcaatg gtttgttctt tgaatggttg caaaaactgt agataatctt actgaggact 1320
gtacaaacat gaaggtgtgg tatcaaactt caggttgaaa ctgtttgaag cattataaac 1380
attcatttca caactagatt gtataaggat attagctgtg atgagactca ctgcattatt 1440
ttttttagtg aattttatga aatccccgtt ccattcaaca ggcacatgtt taaaagagct 1500
ttgtcgttgg tgttaatggg ggaatgtgtt ccttcattgt atttgggcct tttgtattgc 1560
actcttgata ttaaattaaa tgtgccttga aaaaaaaaaa 1600

<210> 51
<211> 1033
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 001762

<400> 51
gccgccggga gccggtgcgg ctgtgagggg ccgcgtctcg cagcagccgc ccggaccggc 60
atggtgttgg gcgccgggcc cgcctcgcct gtctcgggga gcccagggta aaggcagcag 120
taatgctaac gctagcaagt aaactgaagc gtgacgatgg tctcaaaggg tcccggacgg 180
cagccacagc gtccgactcg actcggaggg tttctgtgag agacaaattg cttgttaaag 240
aggttgcaga acttgaagct aatttacctt gtacatgtaa agtgcatttt cctgatccaa 300
acaagcttca ttgttttcag ctaacagtaa ccccagatga gggttactac cagggtggaa 360
aatttcagtt tgaaactgaa gttcccgatg cgtacaacat ggtgcctccc aaagtgaaat 420

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gcctgaccaa gatctggcac cccaacatca cagagacagg ggaaatatgt ctgagtttat 480
tgagagaaca ttcaattgat ggcactggct gggctcccac aagaacatta aaggatgtcg 540
tttggggatt aaactctttg tttactgatc ttttgaattt tgatgatcca ctgaatattg 600
aagctgcaga acatcatttg cgggacaagg aggacttccg gaataaagtg gatgactaca 660
tcaaacgtta tgccagatga taaaagggga cgattgcagg cccatggact gtgttacagt 720
ttgtctctaa catgaaacag caagaggtag ccccctctcc cgtcctcatg ctccctctca 780
gtcccctgga ttgccccagt cctgtgacca tgttgccctg aagaagacca tcttcatgac 840
tgctcattgt agatggagaa ttcaacataa atacagcaag aaaatgtgtt tgggcttctg 900
aagagttgtc tgcttacctt aacatgttta ctttttgaa cttgtactgt ataggctgtt 960
ggtgaaattc ttaagaagtt gtaatgaact caaaattgag gccagagctt gctttccctt 1020
ttcccaaaca aaa 1033

<210> 52
<211> 1837
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 001847

<400> 52
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PF-0356-3 DIV

<211> 1750
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<213> Homo sapiens

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<222> 838
<223> a, t, c, g, or other

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<212> DNA
<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<211> 1460
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
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PF-0356-3 DIV

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<213> Homo sapiens

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<221> unsure
<222> 89
<223> a, t, c, g, or other

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<211> 76
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<213> Homo sapiens

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gacattgtat tccgca 76

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<211> 1327
<212> DNA
<213> Homo sapiens

<220>
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<210> 66
<211> 1892
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
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<211> 843
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

PF-0356-3 DIV

<223> Incyte ID No: 691768

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<221> unsure
<222> 688, 693, 730, 738, 778, 789
<223> a, t, c, g, or other

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<211> 1643
<212> DNA
<213> Homo sapiens

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<213> Homo sapiens

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<213> Homo sapiens

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<210> 71
<211> 1139
<212> DNA
<213> Homo sapiens

<220>
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<223> Incyte ID No: 1404643

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<210> 72
<211> 1406
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1561587

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<210> 73
<211> 2028

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<212> DNA
<213> Homo sapiens

<220>
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<223> Incyte ID No: 1568361

<220>
<221> unsure
<222> 2, 4, 6-7, 15, 18-19, 41, 59, 70, 74, 95, 97, 119, 127, 131, 152, 158, 889
<223> a, t, c, g, or other

<400> 73
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<210> 74

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<211> 1380
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1572888

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<210> 75
<211> 2028
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1573677

<400> 75
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<210> 76
<211> 1170
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1574624

<220>
<221> unsure
<222> 953, 962
<223> a, t, c, g, or other

<400> 76
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<210> 77
<211> 1107
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1577239

<400> 77
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<210> 78
<211> 1075
<212> DNA
<213> Homo sapiens

<220>

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<221> misc_feature
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<210> 79
<211> 1830
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
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<400> 79
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<211> 2028
<212> DNA
<213> Homo sapiens

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<211> 829
<212> DNA
<213> Homo sapiens

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<223> Incyte ID No: 2098087

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<223> Incyte ID No: 2184712

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<213> Homo sapiens

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<223> a, t, c, g, or other

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<213> Homo sapiens

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<211> 1904
<212> DNA
<213> Homo sapiens

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PF-0356-3 DIV

<223> Incyte ID No: 2754573

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<221> unsure
<222> 32-33
<223> a, t, c, g, or other

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<212> DNA
<213> Homo sapiens

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<211> 1112
<212> DNA
<213> Homo sapiens

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<223> Incyte ID No: 3217567

<220>
<221> unsure
<222> 14
<223> a, t, c, g, or other

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<210> 98
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<220>
<221> unsure
<222> 8
<223> a, t, c, g, or other

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